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A STUDY OF THE RELATIONSHIPS BETWEEN THE READING DONE BY COLLEGE FRESHMEN AND APTITUDE AND SCHOLASTIC ACHIEVEMENT.

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THE AMOUNT AND KIND OF READING DONE BY COLLEGE FRESHMEN AND THE NUMBER OF HOURS DEVOTED TO IT DURING AN ACADEMIC YEAR WERE RELATED TO APTITUDE AS MEASURED BY THE AMERICAN COLLEGE TESTING PROGRAM BATTERY (ACT) AND GRADE POINT AVERAGE. TIME CHART FORMS WERE USED TO COLLECT THE DATA. CHARTS WERE KEPT BY OHIO UNIVERSITY FRESHMEN MEN FOR 28 WEEKS. THE TOTAL SAMPLE WAS 3,426. MEAN SCORES AND CORRELATIONS WERE USED TO ANALYZE THE DATA. THE MEAN NUMBER OF HOURS SPENT READING PER WEEK BY FRESHMEN WAS 14. FRESHMEN SEEMED TO READ MORE IMMEDIATELY PRIOR TO EXAMINATIONS. THERE WAS A NEGATIVE CORRELATION BETWEEN HOURS SPENT READING SOCIAL SCIENCE AND ACT. THE DATA SEEMED TO INDICATE THAT THE APPARENTLY MORE INDUSTRIOUS STUDENTS REPORTED THE HIGHEST NUMBER OF PAGES READ. THE READING RATES AMONG VARIOUS SUBJECT MATTER VARIED SIGNIFICANTLY. FRESHMEN SEEMED TO READ MORE PAGES IN SOCIAL SCIENCE AND ENGLISH THAN IN OTHER SUBJECT AREAS. THE NUMBER OF HOURS DEVOTED TO NEWSPAPERS, MAGAZINES, AND UNREQUIRED NOVELS EXCEEDED 3 HOURS PER WEEK. THE TIME SPENT STUDYING VARIED FROM WEEK TO WEEK. ADDITIONAL RESULTS, CONCLUSIONS, A BIBLIOGRAPHY, CORRELATION TABLES, AND APPENDIXES ARE INCLUDED. (BK)

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Cooperative Research Project No. 5-8421

by

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Ohio University
Athens, Ohio

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

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Chapter I

Problem

The purpose of this study is to determine the amount and kind of reading done by college freshmen and the number of hours devoted to it during an academic year and to relate these factors to the students' aptitude, as measured by the American College Testing Program Battery[1], and scholastic achievement, as indicated by semester grade-point averages. There have been previous studies of this nature (see Chapter II), but the majority of these studies has been based on only one week of reading and has been primarily concerned with only the time spent reading.

Fifty years ago college students were described by Baird (1916) in a report of freshmen reading interests as follows:

> From time to time, some brother of the small but highly articulate Order of Pessimistic Pedagogues fulfills his doleful destiny in a magazine article or convention paper in which the incompetence and the intellectual degradation of the college student are set forth with the stern sorrow of a Jeremiah. The collegian--if we are to accept the favorite indictment--is the greatest failure of our time, a kind of achromatic organism which comes out of its four years' bath of erudition and culture uncolored and unchanged. The undergraduate is notable for the things he does not know.

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[1] The battery consists of four tests: English usage, Mathematics usage, Social Studies reading, and Natural Science reading.

In 1965, in a chapter of a book advising college freshmen, Raygor (1965) described the present college student as follows:

> The college student is an extremely busy person. He is typically scheduled for fifteen or more hours of classroom work per week; in addition, he is usually expected to average about two hours of preparation for each hour in the classroom. This means that he has at least a forty-five-hour work week and is consequently involved in a full-time occupation.

Bird (1931) reported that "The presumption that students are overworked receives no support from investigations." It seems that college students and freshmen in particular have been caught between the scylla of what they are and the charybdis of what others think they ought to be. It has been almost universally accepted that students who work hard do well and that students who are lazy do not succeed in college. In academic circles, however, it is known that success or failure in college depends on many different variables, including, among others, not only intelligence, background, emotional factors, and motivation, but also a knowledge of how to study. Little is known about what actually happens when a student sits down to study a book with the purpose of understanding and remembering the material within. Many texts have had the purpose of instructing students in how-to-study techniques. The task of improving individual problems of study is mostly left to chance, however, because so little information is available on the textbook learning situation. Before one attacks the problem of textbook learning, other information should be available.

How much reading college freshmen do is not known. Freshmen instructors make assignments with no knowledge of their students' reading requirements in other courses. High-school students, teachers and counselors have little empirical knowledge of the amount of time college freshmen spend reading. They have little empirical knowledge of the kind and the amount of reading done by college freshmen. What is known of the relationship between the time spent reading and scholastic aptitude has been seriously questioned in the past (see Chapter II). Little is known of the relationships between the amount and the kind of reading that is done and aptitude and scholastic achievement. Little is known of the variation in reading from week to week in an academic year. College students often ask, "How much time should I spend reading?" High-school pupils want to know what will be expected of them in college.

Furthermore, according to a recent survey of research by Asheim(1959), reading does not appear to be a major pastime of Americans. Surveys indicate that adults in many European countries and Canada read much more than Americans, although this country has a higher standard of living. It seems to have been the opinion of some college professors that college freshmen are not avid readers in their spare time. However, whether they are or not is another question remaining to be answered by research.

The present study is designed to contribute to the answers to these questions, the answers to which are so necessary to help contribute to the broader knowledge of learning problems. Hill (1960), in an outline of research needs, called for "an investigation of whether a certain degree or pattern of reading deficiency can be identified, which, when a part of characteristic syndromes, can be used to predict college academic failure or attrition."

The present study, based on reading done by college freshmen every week of an academic year, will add information to the "characteristic syndrome". With data so collected, it will be possible for persons responsible for guiding secondary school and college students, and the students themselves, to be cognizant of the relative importance of the amount of time, the number of pages, and the kind of reading done by college freshmen. As far as this investigator knows, information of this nature, based on current empirical data, is not available.

Objectives

In order to determine the amount of time, the number of pages, and the kind of reading done by college freshmen during an academic year, the investigation will answer the following questions:

1. How much time (in mean hours per week, mean hours per semester, and mean hours per academic year) do college freshmen devote to reading?

2. What is the number of pages of reading (in mean pages per week, mean pages per semester, and mean pages per academic year) done by college freshmen?

3. What are the mean number of pages and the mean number of hours freshmen read in different kinds of materials, required and unrequired, in each week, in each semester, and in an academic year? The kinds of materials are divided into the following categories: English, Mathematics, Natural Science, Social Science, Humanities, Literature, Total Required and Total Unrequired. Magazines and Newspapers, and Lecture Notes are included in the hours data.

4. How does the average college freshman distribute his time in reading among the various kinds of material in the first semester, in the second semester, and in the academic year?

In order to determine the relationships between the amount of time, the number of pages, and the kind of reading as noted above, and aptitude and scholastic achievement and various interrelationships, the investigation will answer the following questions:[2]

5. What are the relationships between the total time spent reading, the total number of pages of reading, the required time and number of pages, the unrequired time and number of pages, and the time and number of pages of reading in the different kinds of reading material read by college

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[2] Aptitude, as measured by the American College Testing Program battery and scholastic achievement, as indicated by semester grade-point averages, are designated as "the two variables." The academic year refers to September through June. The first semester includes September through January. The second semester includes February through June.

freshmen during each week in the academic year, in each semester, and in the academic year and the two variables?

6. Do the mean time and the mean number of pages of reading and required and unrequired reading done by college freshmen in each kind of material vary significantly from week to week throughout the academic year?

7. What are the relationships between the number of pages read per hour in a semester, in each week of the year, in the different kinds of material and the two variables?

8. What are the differences between the mean number of pages read per hour in the different kinds of material in each week of the academic year?

9. What are the differences between the percentages of time spent reading the various subject-matter fields?

10. Are there significant differences, in the number of hours, in the number of pages, and in the rates of reading (in pages per hour) in the different kinds of material in each week, and in the totals of each for each week, between the reading done by college freshmen in the first semester and in the second semester?

11. Are there differences, by inspection, between the reading of freshmen during the second semester and a group of freshmen paid to keep reading charts each week of the second semester?

Chapter II

Review of the Literature

In the past 85 years the results of at least 55 studies dealing with student time expenditure have been published. Each study included an investigation of the time students spent studying or reading. Some of the studies were wholly concerned with time spent reading. Not one of the studies was primarily concerned with the kind or the amount of reading the student did. A few of the studies related time reading or studying to intelligence or achievement. Tables 1 and 2 show the 55 studies and their dates.

TABLE 1

SIXTEEN STUDIES OF HIGH-SCHOOL PUPILS' TIME EXPENDITURE, 1881-1966, INCLUSIVE

Study and Date
Hertel (Johnson, 1899, p.257)
Key (1890)
Johnson (1899)
Giles (1914)
King (1914)
Heck (1915)
Koos (1917)
Clayton (1923)
Uhl (1924)
Sturtevant and Strang (1927)
Cook (1928)
Osterberg (1928)
Uhl (1928)
Crawford and Mayer (1935)
Millington (1939)
Hemmerling (1961)

TABLE 2

THIRTY-NINE STUDIES OF COLLEGE STUDENTS' TIME EXPENDITURE, 1915-1966, INCLUSIVE

Freshmen			All Classes
Male	Female	Both Sexes	
Crawford (1929)	Gau (1931)	May (1923)	King (1915)
Uhrbrock (1931)	Johnson (1938)	Wilkins (1925)	Kirkpatrick (1920)
		Prosser (1927)	Comstock (1925)
		Goldsmith (1928)	Hutchinson and Connard (1926)
		Jones and Ruch (1928)	Martin (1927)
		Wade (1929)	Newcomer (1927)
		Andrews (1930)	Spence (1928)
		Reeves (1930)	Bird (1931)
		Beu (1931)	Bell (1931)
		Cuff (1931)	Chamberlain (1931)
		McCormick (1932)	Jenkins (1931)
		Williamson (1935)	Eurich (1932)
		Menius (1947)	Whitney (1932)
		Malleson (1960)	Gerberich (1933)
		Fortenberry (1961)	Hunt (1937)
			Moore and Graham (1937)
			Heilman (1939)
			Ryans (1939)
			Dole (1959)
			Burns (1963)

Table 1 shows 16 studies which investigated the time expenditure of high-school pupils. At least four of these studies were conducted at an earlier date than the first study at the college level.

Table 2 shows 39 studies at the college level. Nineteen studies were investigations of college freshmen, two sampling entirely males, and two sampling only females. Fifteen of these studies sampled both male and female freshmen. Twenty other studies were concerned with all four college classes.

The heaviest concentration of time studies, as seen in Tables 1 and 2, was the 11 year period from 1925 to 1935. During that time, 30 investigations of time expenditure were published, five at the high-school level and 25 at the college level, or over 50 per cent of the total studies known to the author. It was also during this period and shortly after, that three reviews of research concerned with time studies appeared in the literature. Harris (1931), in an article relating college grades to factors other than intelligence, mentioned several time studies in reference to study habits. Strang (1937) devoted a chapter of a book on college students to studies of "Adolescents' Use of Time." Three years later, Harris (1940) updated his previous review of literature with a review similar to the one he had made nine years earlier. None of the reviews included all the studies reported prior to their respective publication dates.

Of the 55 studies, 14 (Bell, 1931; Comstock, 1925; Eurich, 1933; Goldsmith, 1928; Heck, 1915; Hunt, 1937; Hutchinson and Connard, 1926; Jenkins, 1931; Johnson, 1938; Jones and Ruch, 1928; Prosser, 1927; Uhrbrock, 1931; Wade, 1929; Williamson, 1935) utilized some form of a time-chart for the students to keep during a specified amount of time. The remaining studies utilized either a questionnaire or an interview for obtaining data, thus depending on the students' memories. Forty-eight of the 55 investigators collected data over the period of one week. Six investigators (Bell, 1931; Bird, 1931; Hutchinson and Connard, 1926; Moore and Graham, 1937; Sturtevant, 1927; Wade, 1929) collected data for periods of more than one week, ranging from two weeks for Mt. Holyoke freshmen (Moore and Graham, 1937), to one semester for Vassar undergraduates (Hutchinson and Connard, 1926). The latter most closely resembles the present study in time for collection of data, but the sample consisted entirely of females. Bird (1931, p.54) collected time distribution records for ten weeks, but his data were based on the "records of students in need of counsel and training." None of the investigators attempted to establish conclusively the representativness of his samples.

The study by Williamson (1935) is typical of the many time studies reported in the literature. Willaimson reported on the study time of 105 freshmen at the University of Minnesota. The freshmen kept a record of their reading during the week of October 24-31, 1929. Williamson found a product-moment correlation of -.06 between hours of study and scholarship. The hours of study correlated -.20 with academic intelligence, as measured by the Minnesota College Aptitude Test.

Relationships between hours of study and scholarship in the 12 studies that report correlations (Bell, 1931; Crawford, 1929; Jenkins, 1931; Jones and Ruch, 1928; McCormick, 1932; May, 1923; Menius, 1947; Osterberg, 1928; Ryans, 1939; Spence, 1928; Uhl, 1928; Williamson, 1935) range from -.41 to +.36. Correlations between hours of study and intelligence or aptitude in the six studies that report it (Bell, 1931; King, 1915; Osterberg, 1928; Ryans, 1939; Uhl, 1928; Williamson, 1935) range from -.20 to .00. Of the eight investigators who studied freshmen and reported average time spent per week in study (Andrews, 1930; Crawford, 1929; May, 1923; Prosser, 1927; Reeves, 1930; Uhrbrock, 1931; Wade, 1929; Williamson, 1935), the range was from 18.30 hours per week to 48.10 hours per week. The differences among these average statistics in the various investigations may be due to the fact that they were completed at different colleges. However, a more sophisticated research design seems to be the immediate need for obtaining more reliable data.

The earliest published investigation of time expenditure to the author's knowledge, was that of Hertel, in 1881, as reported by Johnson (1899, p. 257). Hertel, a medical doctor, examined 4,352 high-school pupils in Denmark and found that an increase in the amount of sickness through the high-school years coincided with an increase in the number of hours of work. In 1882, Key (1890) conducted a similar study in Sweden and found similar results. The reports of Hertel and Key led Johnson in 1897 to conduct what the author believes is the first published study of student time expenditure in the United States. Johnson (1899) found that the number of hours devoted to work by Indiana high-school pupils was much less than the number of hours spent by pupils in European countries. He also concluded that fostering better methods of study was the teachers', as well as the pupils', responsibility.

The earliest study of college students' time expenditures, to the author's knowledge, was that of King in 1913 at Iowa State University. King (1915) found a slight inverse correlation between ability and time spent in study reported for a single lesson. King distributed a questionnaire in one class to obtain data for one day.

As mentioned before, the methods of collecting data in earlier studies have been the use of time charts, questionnaires, and interviews. The questionnaire and interview methods necessarily cause the student to rely on memory to report information. Many articles have indicated the limitations of the questionnaire in research (Wilson, 1945). The National Education Association (1930) listed four of the most common objections to the use of the questionnaire in educational research: (1) choice of sample might influence validity of the findings, (2) respondents might be influenced by what they think the investigator wants, (3) data might be inaccurate as a result of careless reporting or difficulty in securing desired information, (4) questionnaires are frequently poorly prepared. Symonds (1926) warned investigators of study habits that questions involving retrospection require special training, since the question may be suggestive, thus leading students to give misleading information. Concerning the questionnaire, Symonds (1926, p. 147) stated 40 years ago:

> The best that can be done is to say that any picture of study conditions as painted by questionnaire returns is a wrong one, and decidedly better than the true status as regards study methods or conditions.

Symonds (1926) raised the same objections to the interview and claimed that testing was the best method of study-habit research. For the purpose of obtaining information on the amount of time, the number of pages, and the kind of reading done by freshmen, the observation and testing methods would be highly impractical for the number of students and the time period needed for a valid study. The time chart or diary method is a method whereby the student is asked to keep a chart with him at all times and record all the reading he does during a specified time period. The time chart does not require retrospection. Hightower (1956) and Molsbergen (1954) found no significant differences between observation and self reports of student studying. Converse (1931) criticized the use of time charts by stating that students may speed up their studying to make their study habits seem efficient, or they may loaf and slow down in studying for fear of getting more reading assigned to them. Converse added that if these two faults were present, they would be compensating! Moore and Graham (1937, p.337) have criticized studies of study habits and time studies as follows:

> The interval of one week, common to many reports, depends for its accuracy on its representativeness... The one week selected is usually a gamble, and generally dependent upon the available leisure which permits student cooperation.

Converse (1931, p. 262) stated:

> Studies apparently should extend over an entire term or semester as the amount of time spent in study may vary widely from week to week.

Hutchinson and Connard (1926) and Bird (1931) studied samples of females and how-to-study enrollees respectively. Neither reported differences or similarities among the different weeks. Williamson (1935), who studied freshmen for one week, attributed disparities of results with previous studies to the choice of weeks during the year, one being just prior to exams (Crawford, 1935) and another just prior to a vacation (Jones and Ruch, 1928).

Students seem to tend to overrate rather than underrate themselves in reporting on study habits (Chamberlain, 1931; Jenkins, 1931; King, 1915; Stoke and Lehman, 1930). Arsenian (1942, p. 302) concluded that "students who grossly over or underestimate their abilities, knowledges, and adjustment are as a group somewhat less intelligent and less well-adjusted." Stoke and Lehman (1930) conducted an interesting experiment questioning the negative correlation between time spent in study and intelligence, or the research findings that dull students are more industrious than are bright ones (King, 1915; Osterberg, 1928; Ryans, 1939; Uhl, 1928; Williamson, 1935). Stoke and Lehman (1930) asked students in seven classes how many times in the past week they had taken a book from the reserve desk for work assigned in one course. The library cards for the specific week were carefully examined, new blank cards having been inserted in the books at the beginning of the week. Seven out of the eight classes overestimated the number of checkouts they had made. The students with grades of "C" and "D" in this course returned the most exaggerated reports. For this reason, Stoke and Lehman questioned the findings that bright students studied less than dull ones and suggested that the dull students grossly overestimated their studiousness. Since earlier studies have not concentrated on relationships other than those between time reading and intelligence and aptitude, and since most of the studies were carried on for short periods of time, it is difficult not to wonder whether the theory of Stoke and Lehman could be true. Hightower (1956), Perry (1959), and Preston (1948) have found that intelligent students seem to have poor study habits. Harlow (1942) found no relationship between scholastic rating and number of books withdrawn from the library. Grace (1942) found that high-aptitude students read fewer books than low-aptitude students. However, Converse (1931), Molesbergen (1954), Newcomer (1927), Staiger (1962), Terman and Lima (1927), and Uhrbrock (1931) found that superior students were more studious and spent more time on their work than less superior students. Also, Robinson (1961) and Ross and Klise (1927) have attributed the negative correlation between intelligence and hours of study to the intelligent student's effective use of time. Clearly, there is a disparity of findings and opinions. Whipple (Jones and Ruch, 1928) claimed that the investigation by Jones and Ruch (1928), finding a negative correlation between time in study and grade-point average, "does not prove that inferior students could not compensate their inferior ability by increased time spent in study; but it does show that, as a group at least, they do not do it."[1]

The present study investigates not only the relationships between the time spent reading required and unrequired material and aptitude and scholastic achievement, something other investigations have not done, but also investigates the relationships between the number of pages of reading and the kinds of reading and aptitude and scholastic achievement. The present study provides an interesting test of the theory proposed by Stoke and Lehman (1930)

Any study of the time, the number of pages, and the kind of reading of college students, such as the present study, is vulnerable to criticism. The time-chart method seems to the author the most valid technique for collecting data of this nature. Certainly it is more reliable than methods such as the questionnaire and interview, which necessarily rely on memory. With sufficient instruction as to how to keep the chart, the collecting of data over a period of two semesters, and an adequate treatment and analysis of the data, the author feels that valid information may be gleaned within certain unavoidable limitations.

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[1] This appears in the editor's prefatory note on page 130 of Jones and Ruch (1928).

As mentioned earlier, the samples of previous studies have been composed of freshmen as well as high school students and upperclassmen. Andrews (1930) found an increase in hours of study from the freshman to the senior year. Burns (1963) and Menius (1947) found that freshmen spent more time studying than did seniors. Eurich (1933) found no significant differences between hours of study of the same two classes. Valid studies of variation in reading from class to class would depend on the rigid control of many variables. A longitudinal study of the same students in the same class over a four-year period would seem most appropriate. Such a study has not been found in the literature. It is not the purpose of the present study to generalize to all four college classes, nor is it the purpose to compare the reading of freshmen with other classes. The problem of variation of reading from class to class could be the subject of another study.

Texts on how to study have admonished students to make up a time schedule and stick to it. As early as 1924, Kornhauser (1924, chapt. 14) advocated cultivating a system. Since that time several books have given the same advice (Bird and Bird, 1945; Froe, 1959; Morgan and Deese, 1957; Pauk, 1962; Schooland, 1950; Wrenn, 1959; Wrenn and Larsen, 1955). Book (1927) reported that if students were instructed in using their time efficiently, before they experienced failure, their scholastic efficiency was raised. Conversely, Johnson (1938) reported that definite planning had no positive effect on the scholastic achievement of Normal School girls. Studies of student time expenditure have been used as examples of how students waste potential study time (Pauk, 1962, p. 5). Interviews with students revealed to Burns (1963) that, agreeing with popular belief, students tended to postpone doing assigned reading until just before exams. The present study will provide more accurate current information for authors of study manuals.

Concerning the amount of reading in various subject matter fields, Uhl (1924) found no significant differences at the high-school level. Wade (1929) concluded that Normal College teachers expect more time for the average preparation than they receive. Whitney (1932) found, however, that students spent four more hours in study than the faculty believed they should. Since amount of reading in each course has been cited as a difference between successful and unsuccessful students (Ross, 1927), and to the author's knowledge, the subject has not been studied thoroughly, it seems worthwhile to investigate the amount of reading freshmen do in various subject fields.

Neither the amount of reading nor the rate of reading in various subject matter fields has been investigated. Converse (1931) concluded that rate appeared to vary with the nature of the material, based on the reading of 11 books in one course. Several studies have revealed that the rate of reading and comprehension vary with the difficulty of the material and the reader's purpose, among other factors (Blommers and Lindquist, 1944; Flanagan, 1939; Laycock, 1955). Eurich (1933) attempted to establish the reliability of his data in a study of time expenditure of college students by reporting the correlation coefficient between pages read and time reading. He found a correlation of .68. However, Eurlich failed to consider that students should, and probably do, in most cases, vary their reading rates according to the difficulty of the material that they are reading. A student might read with equal comprehension, 20 pages of a physics text in three hours, and 20 pages of a novel in 20 minutes.

Some factors which may be thought by some to have an influence on the present study are place of study, student course load, employment, and reading interests. It seems proper to add a discussion of each of these factors here.

Place of study, or study environment, has been studied in conjunction with concentration and time in study. In two observational studies, it was found that students concentrated on studying nearly 80 per cent (Molsbergen, 1954) and less than 100 per cent (Troth, 1929) of their time in the library. In another observational study, Hightower (1956) found that students spent 72.7 per cent of the observation time in their dormitory rooms in study. Berrien (1942) found that Colgate men spent one quarter of their time in the library in non-productive activities. Richard (1936, p. 592) found that when students were matched by achievement and intelligence, "residence students who study in private rooms receive higher marks in proportion to their mental ability than students who study at home." From the results of these studies, it seems that students do not spend 100 per cent of their time in the library or in their rooms at study and that resident students get better grades than non-resident students. Since the students in the present study kept time-charts as they actually read, the possibility of error due to remembering (for example, "I spent two hours in the library", when, in actuality, only 75 per cent of that time was spent reading) will not be present. The sample of the present study lived in residence halls; no commuting students were included. Therefore, the influence of non-residence was not present.

Studies seem to indicate that student load or number of courses taken has no significant effect on grades (Andres, 1956; Carraker, 1936; Merrill, 1954). For this reason, student load was not considered in the present study.

Likewise, no significant differences have been found between student employment and grades (Giles, 1914; Heilman, 1939). It seemed superfluous to investigate this factor in the present study.

Studies of reading interests of college students have been plentiful in the literature for some time (Asheim, 1959;

Bloom, 1930; DeBolman, 1961; Staiger, 1962; Stoke and Cline, 1929). Anderson (1940) and Witty (1948) reviewed the literature on reading interests in 1940 and 1948 respectively. Abraham (1950) in an extensive study, including freshmen and seniors in nine selected colleges across the country, concluded that generally, students read what is available to them. Most studies of reading interests do not agree with Terman and Lima (1927, p. 28), who stated that "the average college freshman reads not a single book beyond the requirements laid down by his instructors." Because of the abundance of literature on the subject, the author chose not to include a study of interests in the present investigation. Closely related to the studies of reading interests are studies of magazine and newspaper reading (Fortenberry, 1961; Odland, 1963). Some studies have concentrated on the time spent reading magazines and newspapers (Cuff, 1931; Kirkpatrick, 1920). Witty (1948, pp. 8-26) provided an adequate review of the literature on magazine and newspaper reading. Correlations will be reported with other factors in the present study. To the author's knowledge, there have been no studies on the time spent reading magazines and newspapers of the magnitude of the present study.

Upon a thorough inspection of the literature,[2] it was found that many studies have been conducted concerning time expenditures of students. Many of these reported figures for time spent reading or studying. Few of the studies collected data for more than one week; those that did studied samples other than male college freshmen. There seems to be a paucity of studies of the number of pages and kind of reading college freshmen do that have related number of pages and kind of reading to aptitude and scholastic success. The methods of collecting data in time studies have been criticized and there have been disparities in the results of several studies. The negative relationship between time reading and aptitude and scholastic achievement found by other investigators and the theory that this relationship is due to overestimates of less bright students especially will be tested. The present study is designed to eliminate chances of questionable results.

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[2] To initiate the search of the literature, the author searched through the following sources: The Education Index;

Gray's "Summary of Reading Investigations," in the February issues of Journal of Educational Research, 1933-1960; Traxler's Educational Records Bureau Bulletins, 23, 46, 64, and 75, (reviews of reading); Harris' Encyclopedia of Educational Research; 1960 Edition, "Reading;" and Psychological Abstracts.

Bibliographies of larger studies and a few articles reviewing research were of great help. The writer also acknowledges the aid of Science Information Exchange, A National Registry of Research in Progress, Smithsonian Institution, Washington, D. C.; Dr. Alton Raygor, University of Minnesota; Dr. E. G. Williamson, University of Minnesota; Dr. Arthur Dole, University of Hawaii; Dr. Francis Robinson, the Ohio State University.

Chapter III

The Plan of the Study

The collection of data required that detailed reading charts be kept by different groups of freshmen each week for 14 weeks, or one semester, to sample the entire freshmen men's dormitory population in one semester. The procedure was repeated during the second semester with the same groups of freshmen during the same corresponding weeks. Another group of 50 freshmen was chosen randomly from the same population(the freshmen men's dormitories) and paid to keep reading charts every week for an entire academic year.

Procedures

In June 1964, a pilot study was conducted at the University of Pennsylvania having four purposes: (1) to test the usefulness of a reading chart form (Appendix 1), (2) to test the willingness of freshmen to keep a record of their reading, (3) to obtain an approximation of the time freshmen spend reading in a week and of their rates of reading different kinds of materials, (4) to determine the various types of reading done by freshmen.

A report of the pilot study appears in Appendix 2. The report which was sent to the student participants at the University of Pennsylvania appears in Appendix 3. The pilot study indicated that a larger study would be feasible with a few revisions of the chart form. The chart form was revised (see Appendix 4), and a larger study was planned, to be conducted at the Ohio University.

Founded in 1894, the Ohio University is the oldest institution of higher learning in the Northwest Territory. It is a co-educational, state-assisted university located in Athens, Ohio. The enrollment on the main campus during the academic year of 1965-1966 was approximately 14,000 students, with 5,000 more students enrolled on the six branch campuses.

The majority of the students at the Ohio University is from the state of Ohio. Approximately 15 per cent of the students are from out-of-state, and higher admission standards are required of them. Each prospective student is required to take a college ability test, either the American College Testing Program Examination for Ohio residents, or the Scholastic Aptitude Test of the College Entrance Examination Board for out-of-state students.

During the 1965-1966 academic year, approximately 4,600 freshmen were enrolled on the main campus in Athens. Of these, 2,651 male freshmen lived in 13 residence dormitories. The freshmen were randomly assigned to the dormitories as they paid their fees. The two largest dormitories (those with over 300 freshmen residents) housed 324 and 330 freshmen. The five smallest dormitories (those with under 150 freshmen residents) had a mean of 129 freshmen residents each, and a range of 104 to 138. The remaining six dormitories had a mean of 215 freshmen residents each, and a range of 172 to 292. For the purpose of matching the 13 dormitories into the 14 weeks of a semester as equally as possible with regard to number of freshmen residents, the largest two dormitories were each equally divided in half, making four dormitory groups. The two smallest dormitories were combined to make one dormitory group. The manipulation of the groups resulted in having 14 dormitory groups with a mean of 185 residents per group and a range of 134 to 292. The mean number of Ohio resident students was 160 per dormitory and the range was 118 to 265. The mean number of out-of-state resident students was 26 per dormitory and the range was 11 to 52. The percentage of out-of-state students in the freshmen male dormitory groups was 15.9 per cent.

The 14 dormitory groups were assigned numbers, and with the use of a table of random numbers, were randomly assigned to 14 weeks of the first semester, 1965-1966, and in the same order, to the 14 weeks of the second semester, 1965-1966. See Appendix 5 for the schedule of dormitories keeping charts. The 14 weeks were chosen so as to include seven consecutive days from Thursday morning until the following Wednesday night, the same sequence of days during each week continuously through the semester. Thursday morning was chosen as the time to start filling out the chart because each hall section in each dormitory had its weekly meeting on Wednesday evenings. Therefore, it was possible to have time charts filled out for two entire academic semesters, with breaks only during vacations and the semester break.

Each residence hall was assigned a resident director, usually a married doctoral candidate, who was in charge of the dormitory and directed the dormitory counselors, usually graduate students or upperclassmen, who lived on each hall section in the dormitory. The mean number of hall counselors in the 14 dormitory groups was 10.5, and the range was from 8-18. On September 14, 1965, the investigator met with the 14 resident directors, having received permission to conduct the research from the appropriate deans. At the meeting with the resident directors, the procedure for conducting meetings in the dormitories with the hall counselor was discussed as follows: A copy of the schedule for keeping the chart (Appendix 5), the chart form (Appendix 4), and the speech to be read by the counselors (Appendix 6) were distributed to the resident directors. It was explained that the investigator would attend the regular Tuesday night meeting of hall counselors on the Tuesday prior to the Thursday their dormitory was scheduled. He would explain the study, pass out the charts and speeches so that the counselors could explain the study, and pass out the charts to the freshmen at their hall meeting the following evening.

For the next 28 Tuesday evenings during the time school was in session, the investigator attended meetings with hall counselors. He attended meetings in the 14 dormitories for 14 weeks during the first semester, and attended meetings at the same 14 dormitories during the 14 weeks of the second semester. At these meetings, the investigator was extremely careful to recite the same speech at each meeting. At the first 14 meetings, the speech prepared for the counselors to read to the freshmen (Appendix 6) was read to the counselors, after the investigator recited his directions. Copies of the speech and the appropriate number of chart forms were then distributed. An approximation of the directions given to the counselors appears in Appendix 7. The completed chart forms were collected from the resident director a week later. At the second 14 meetings (the same dormitory counselors during the same corresponding weeks of the second semester) it was unnecessary to read the speech form a second time, since the counselors had heard it once and had read it aloud once. However, the investigator did repeat his instructions as in the first semester (Appendix 7), distributed the chart forms, and asked for questions.

During the second semester, a separate group of 50 students was randomly chosen to be paid to keep a weekly reading chart every week for 14 weeks. Originally, it had been planned to pay the group of 50 students during the first semester, but funds were not available to pay students during the first semester. These students were randomly selected from an alphabetical list of freshmen male dormitory residents by choosing every fiftieth name from a list of 2,651 names. On January 4, 1966, a letter (Appendix 8) was sent to each of the 50 freshmen, inviting them to attend a meeting and offering them a chance to make some money. Thirty-two students attended the meeting and ten students met with the investigator later. All 42 agreed to keep the chart form for a semester. The study was explained to these students in the same manner as it was explained to the hall counselors (Appendix 7). A copy of the speech (Appendix 6) was given to them along with 15 copies of the chart form (Appendix 4). They were instructed to turn in the chart at the investigator's office every Thursday for 14 weeks. A schedule was given to them to follow (Appendix 9). This schedule was exactly the same as that for the second semester weekly dormitories. The frehsmen were paid 20 dollars on completion of the 14th chart.

Chapter IV

Collection of the Data

First Semester Data

At the beginning of the first semester of the 1965-1966 academic year, 2,651 first-semester freshmen men lived in the various men's dormitories at the Ohio University. During the semester, 29 freshmen dropped out of school for academic or other reasons before they had an opportunity to complete a reading chart. Of the 2,622 remaining freshmen in the dormitories each week, 1,719 completed a one-week reading chart during one of the 14 weeks of the first semester.

Nine hundred and three freshmen had an opportunity to complete a reading chart, but chose not to do so. Of the reading charts completed, 101 were not usable for reasons such as: no name, number of pages not entered, number of hours not entered, or unreadable. Ohio residents completed 1,400 acceptable charts and out-of-state freshmen completed 216 acceptable charts, a total of 1,616 acceptable charts for the first semester. Thus, 61.7 per cent of the freshmen turned in acceptable reading charts for one of the 14 weeks of the first semester. Of the 1,616 freshmen who completed acceptable reading charts, 184 dropped out of school for academic or other reasons and the University did not have first-semester grade-point averages available for them. Of the 1,616 freshmen who completed acceptable reading charts, 1,198 took the American College Testing Program examination for entrance to the Ohio University. For them, ACT composite standard scores were available. Grade-point averages were available for 1,434 students (1,237 Ohio residents and 197 out-of-state residents). Both grade-point averages and ACT composite scores were available for 1,060 resident students who turned in acceptable reading charts.

Second Semester Data

At the beginning of the second semester of the 1965-1966 academic year, 2,439 second-semester freshmen men lived in the dormitories at the Ohio University. Of these, 619 filled out reading charts during the 14 weeks of the second semester. Twenty-three of the charts were not usable. Of the 595 acceptable charts, 520 were filled out by Ohio residents and 75 were filled out by out-of-state residents. The number of students who chose not to fill out a reading chart was 1,820. Thus, 24.4 per cent of the freshmen turned in acceptable reading charts. Of the 595 students who completed acceptable reading charts, 17 dropped out of school for academic or other reasons. Grade-point averages were not available for these 17 students. Four hundred and thirty-three of the students who successfully completed reading charts had taken the American College Testing Program examination for entrance to the Ohio University. The ACT composite scores were available for these 433 students (419 Ohio residents and 14 out-of-state residents). Grade-point averages were available for 579 students (508 Ohio residents and 71 out-of-state residents). Both grade-point averages and ACT composite scores were available for 417 Ohio Resident students who turned in acceptable reading charts.

Paid Participants

Of the 50 freshmen who were randomly selected from the entire freshmen dormitory population and paid to keep a reading chart every week of the second semester, four dropped out of school and nine chose not to keep the chart. Statements concerning why these nine refused to keep the chart may be found in Appendix 10. Of the 37 freshmen who kept acceptable reading charts for the 14 weeks of the second semester, 29 were Ohio residents and 8 were out-of-state residents. Of the 29 Ohio residents, ACT composite scores were available for 26 and grade-point averages were available for 29.

Tables 1 and 2 indicate by week and by semester, the numbers of freshmen in each of several categories. They also show the per cent of freshmen in residence who turned in acceptable charts each week. Table 3 shows the number of Ohio resident students in each of three categories (total Ohio residents, Ohio students with ACT and GPA scores, and the paid students) who completed successful reading charts in each week of the academic year.

TABLE 1

NUMBER OF RETURNS OF READING CHARTS FIRST SEMESTER, 1965-1966

Week	Drop-outs	Residents in Dormitory at End of Week	Non-respondents	Unusable Charts	Acceptable Charts			
					Ohio	Out-of-state	Total	Per cent of Residents who Completed Acceptable Charts
1	2	138	22	3	99	14	113	82
2	1	174	39	6	123	6	129	74
3	3	192	83	6	93	11	104	54
4	2	215	86	9	88	31	119	56
5	4	293	96	12	171	14	185	63
6	1	132	57	0	66	9	75	57
7	1	138	61	6	66	5	71	51
8	3	233	93	7	100	33	133	57
9	0	161	48	9	87	17	104	65
10	7	263	81	22	144	16	160	61
11	1	172	46	6	108	12	120	70
12	0	177	47	5	107	18	125	71
13	2	161	46	7	96	11	107	67
14	2	173	98	3	53	19	72	42
1-14	29	2,622	903	101	1,400	216	1,616	61.7

TABLE 2

NUMBER OF RETURNS OF READING CHARTS
SECOND SEMESTER, 1965-1966

Week	Residents in Dormitory at End of Week	Non-respondents	Unusable Charts	Acceptable Charts			
				Ohio	Out-of state	Total	Per cent of Residents who Completed Acceptable Charts
15	130	78	2	48	10	58	45
16	160	91	6	74	3	77	48
17	176	161	1	27	3	30	17
18	198	165	4	32	14	46	23
19	278	208	3	74	7	81	29
20	124	108	1	21	2	23	19
21	130	107	0	29	2	31	24
22	221	193	2	27	11	38	17
23	149	115	0	42	4	46	31
24	247	222	0	37	4	41	17
25	158	131	1	36	4	40	25
26	160	127	0	40	10	50	31
27	149	147	2	21	1	22	15
28	159	160	1	12	0	12	8
15-28	2,439	2,003	23	520	75	595	24.4

TABLE 3

NUMBER OF OHIO RESIDENT FRESHMEN WHO SUCCESSFULLY COMPLETED READING CHARTS EACH WEEK

Week Number	Total Ohio Students	Ohio Students With ACT and GPA Scores	Paid Students (same each week)
1	99	74	
2	123	95	
3	93	72	
4	88	53	
5	171	136	
6	65	49	
7	66	55	
8	100	74	
9	87	74	
10	144	107	
11	108	83	
12	107	73	
13	96	77	
14	53	38	
15	48	40	29
16	74	60	29
17	27	22	29
18	32	26	29
19	74	61	29
20	21	17	29
21	29	22	29
22	27	21	29
23	42	37	29
24	37	30	29
25	36	27	29
26	40	28	29
27	21	17	29
28	12	9	29
First Semester Total	1400	1060	0
Second Semester Total	520	417	406
Academic Year Total	1920	1477	406

Sample

Included in Table 4 are the mean American College Testing Program (ACT) Battery composite standard scores for various groups of freshmen. The composite standard score is a composite of the raw scores of the four tests of the battery (English, Mathematics, Social studies, and Natural sciences) converted to an adjusted standard score.

> Comparable forms of the ACT battery are administered on five testing dates each year. Since these tests measure academic potential that is undergoing change, the absence of an adjustment for this growth factor would mean that students tested later would have a slight advantage over students tested earlier. For this reason a correction for successive dates is made in reporting test results. In making the correction, the first national test date in November is the reference date.
>
> The adjustments are possible because ACT results are reported on the same scale as the Iowa Tests of Educational Development and because growth curves have been established for the ITED for grades 9-12 through the 1962 national standardization program. By interpolation along these growth curves, scores are adjusted downward to the corresponding standard scores of the November testing. Thus any systematic advantage of students tested in the spring or later over those tested in November is eliminated. (American College Testing Program, 1965, p. 10).

Reviews in The Sixth Mental Measurements Yearbook (Buros, 1965, pp. 6-9) indicate that the ACT battery is a widely used college ability test and that the composite standard score compares favorably with other college ability tests.

Because higher admission standards are required of out-of-state students at Ohio University, the homogeniety of the sample would have been threatened if the out-of-state students had been included. The out-of-state students were excluded from the entire sample (Table 3).

In an attempt to test for significance of differences between means of Ohio and out-of-state residents, it was found

(Table 4, pairs 1,2, and 3) that there were no significant differences. However, the grade-point averages were all significantly different at the .01 per cent level. Because of the small number of out-of-state students having taken the ACT battery, it is impossible to accurately test all the students, but the university admissions office has assured the investigator that admission standards are considerably higher for out-of-state students.

The entire Ohio resident sample was still not as homogeneous as it could have been because grade-point averages were not available for many students. Presumably, these were the students who dropped out of school for some reason, possibly academic failure, before the semester grades were compiled. For this reason, a second sample of freshmen was selected from the total Ohio resident sample. The Ohio resident freshmen for whom ACT and GPA scores were available were treated as a separate sample to increase homogeneity and as a test for possible differences due to the above-mentioned score availability. A third random sample was paid to keep charts every week for the second semester.

Table 4 (pairs 4 and 5) shows an attempt to establish that the freshmen who completed successful reading charts were representative of the freshmen population. No significant differences were found between the ACT scores or ability of the respondents and nonrespondents, however, there were significant differences between GPA scores, the nonparticipant means being lower. This suggests that the type of student who completed the chart is of a more industrious nature than the

TABLE 4

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN MEAN ACT COMPOSITE SCORES AND GRADE-POINT AVERAGES FOR SIX PAIRS OF FRESHMEN GROUPS

Pair	Score	Group 1	N	Mean	Group 2	N	Mean	dof	t Value
1	ACT GPA	First Semester Ohio Participants	1150 1237	22.9 2.1	First Semester Out-of-state Participants	48 197	23.6 2.4	1196 1432	1.79 28.04**
2	ACT GPA	First Semester Ohio Nonparticipants	589 643	22.7 2.0	First Semester Out-of-state Nonparticipants	18 111	23.7 2.1	605 752	1.48 2.77**
3	ACT GPA	Second Semester Ohio Participants	419 509	23.1 2.3	Second Semester Out-of-state Participants	14 71	22.8 2.6	431 577	0.10 9.85**
4	ACT GPA	First Semester Out-of-state Participants	48 197	23.6 2.4	First Semester Out-of-state Nonparticipants	18 111	23.7 2.1	64 306	0.00 9.36**
5	ACT GPA	First Semester Ohio Participants	1150 1237	22.9 2.1	First Semester Ohio Nonparticipants	589 643	22.7 2.0	1737 1878	1.91 7.70**
6	ACT GPA	Second Semester Paid Ohio Participants	363 406	23.2 2.1	Second Semester Ohio Participants	419 509	23.1 2.3	780 911	0.29 20.20**

Note: **= Significant at the .01 level

nonparticipant, although of the same general ability. As noted earlier, the sample was chosen randomly from the total male freshmen dormitory population.

Table 4 (pair 6) also shows that the paid participants differed in a similar manner from the second semester participants.

Chapter V

Results and Conclusions

Since almost three times as many freshmen participated in the study the first 14 weeks as did the second 14 weeks, it seems reasonable to draw conclusions primarily from the first semester data. The second semester data necessarily will be discussed in those objectives where relationships between the two semesters are analyzed.

1. How much time (in mean hours per week, mean hours per semester, and mean hours per academic year) do college freshmen devote to reading?

Table 1 shows the mean hours and standard deviations for the distributions of hours of reading during each week of the semester for the sample of freshmen (Ohio Residents Only), the sub-sample (Ohio Residents With ACT and GPA Scores), and the Paid Freshmen. These three samples will hereafter be identified as the three groups of freshmen.

The mean number of hours spent in study in one week for each of eight previous studies of college freshmen which report average hours per week (Andrews, 1930; Crawford, 1935; May, 1923; Prosser, 1927; Reeves, 1930; Uhrbrock, 1931; Wade, 1929; Williamson, 1935) ranged from 18.30 hours to 48.10 hours with a mean of 29.85 hours. The highest mean for one week in the present study was 21.14 hours for the Ohio residents with ACT and GPA scores in the fourteenth week.

TABLE 1

MEANS AND STANDARD DEVIATIONS OF HOURS AND PAGES OF READING FOR OHIO RESIDENTS ONLY, OHIO RESIDENTS WITH ACT AND GPA SCORES, AND PAID FRESHMEN

	Ohio Residents Only					Ohio Residents With ACT and GPA Scores					Paid Freshmen				
Week	N	Mean Hours	SD	Mean Pages	SD	N	Mean Hours	SD	Mean Pages	SD	N	Mean Hours	SD	Mean Pages	SD
1	99	12.73	9.32	229.00	232.72	74	12.78	8.91	238.00	230.81					
2	123	12.39	6.46	228.00	158.70	95	12.64	6.72	239.00	168.81					
3	93	11.11	7.07	179.00	130.26	72	10.76	6.58	174.00	123.60					
4	88	13.22	6.86	248.00	220.73	53	13.36	7.47	236.00	238.00					
5	171	15.64	9.60	278.00	246.32	136	15.50	9.60	276.00	236.41					
6	65	15.37	7.70	224.00	149.69	49	15.08	7.17	233.00	158.28					
7	66	15.52	8.66	175.00	105.04	55	15.59	8.74	175.00	110.25					
8	100	18.01	14.94	222.00	216.35	74	18.87	16.30	225.00	240.52					
9	87	16.40	9.29	230.00	167.61	74	16.63	9.50	220.00	147.98					
10	144	13.30	9.17	199.00	219.68	107	13.89	9.02	211.00	227.30					
11	108	14.96	7.44	232.00	203.50	83	14.95	7.81	229.00	211.64					
12	107	17.02	12.61	243.00	209.02	73	16.24	13.34	212.00	166.52					
13	96	14.62	8.10	235.00	189.02	77	15.15	7.92	258.00	196.77					
14	53	20.05	10.99	341.00	260.00	38	21.14	12.05	334.00	260.53					
15	48	14.21	10.15	236.00	335.07	40	14.48	10.58	248.00	362.67	29	12.86	7.85	185.00	123.53
16	74	12.98	7.69	210.00	132.44	60	13.00	7.52	207.00	131.40	29	12.75	5.99	204.00	172.17
17	27	14.71	9.52	234.00	185.34	22	12.12	8.44	184.00	94.31	29	15.66	6.82	237.00	187.03
18	32	17.05	9.73	255.00	192.10	26	17.11	10.22	262.00	197.08	29	13.95	6.54	180.00	103.78
19	74	19.30	9.69	334.00	196.60	61	19.61	10.05	323.00	191.20	29	16.19	8.02	287.00	172.64
20	21	16.22	10.00	265.00	172.27	17	16.66	10.99	269.00	187.74	29	15.67	8.15	268.00	166.78
21	29	16.02	8.16	215.00	160.34	22	15.01	6.29	185.00	85.38	29	14.37	7.99	198.00	137.54
22	27	14.83	8.51	260.00	161.57	21	14.29	8.07	270.00	172.26	29	17.20	8.06	221.00	168.67
23	42	15.96	8.06	200.00	152.31	37	15.92	8.26	189.00	143.64	29	14.24	7.86	194.00	176.13
24	37	14.78	9.79	215.00	219.91	30	14.39	9.32	224.00	233.28	29	14.36	6.44	158.00	111.86
25	36	16.33	9.61	227.00	178.13	27	15.18	10.54	211.00	178.81	29	14.52	9.15	173.00	139.96
26	40	14.96	9.70	297.00	336.83	28	15.65	8.80	290.00	319.04	29	14.23	8.49	230.00	176.06
27	21	12.26	5.92	162.00	103.60	17	12.78	6.10	165.00	109.63	29	15.61	9.26	194.00	130.21
28	12	20.62	8.62	394.00	222.63	9	23.30	9.18	456.00	269.03	29	20.45	12.61	278.00	228.87
1st Sem.	1,400	14.80	9.63	232.00	204.45	1,060	14.95	9.86	233.00	202.55					
2nd Sem.	520	15.63	9.20	249.00	213.85	417	15.55	9.27	244.00	213.64	406	15.15	8.32	215.00	162.01
Year	1,920	15.03	9.52	237.00	206.66	1,477	15.12	9.70	236.00	205.86					

The mean hours of the present study seem quite low relative to the findings of previous studies. Previous studies, however, were based, for the most part, on only one week. Since the range of mean hours per week was as low as 11 hours and as high as 21 hours, it is understandable that earlier studies may have been done during weeks when a relatively higher number of hours was spent reading by the students. This seemingly low mean number of hours per week seems even lower when one considers that the mean reported represents all the reading the freshmen did, including required and unrequired reading.

Table 1 shows in weeks 14 and 28 that freshmen, as one might suspect, do seem to spend more time reading immediately before final exams than during other weeks. Also during week 18, the week prior to most of the mid-semester exams, freshmen seem to spend a high mean amount of hours reading.

When one considers the Ohio University campus social and vacation calendar, there doesn't seem to be any systematic rise and fall of mean hours of reading between the weeks just prior to homecoming week-end (week 4), Thanksgiving vacation (week 10), Christmas vacation (week 12), Spring vacation (week 21), or junior prom weekend (week 24).

Considering the reliability of results (Converse, 1931; Symonds, 1926, p. 147), if students were to err in reporting number of hours reading, one would think they would err, especially in reporting data of such academic significance, on the side of reporting a higher number of hours than was actually spent. The data shown in Table 1 seem to indicate that the students reported reliable figures. These figures do not conform to the "two hours of preparation for each hour in the classroom" as mentioned by Raygor (1965, p. 541), but it seems that the mean hours reported represent a more realistic accounting of freshmen reading than has been reported in earlier studies.

Tables 2, 3, and 4 show the first, tenth, twenty-fifth, fiftieth, seventy-fifth, ninetieth, and ninety-ninth percentiles of hours of reading for the three groups of freshmen.

These percentiles were not computed by normal grouping procedures. Since the IBM 360, model 40 computer was utilized in all the computations, more than adequate memory capacity was available to enable computation of percentiles without resorting to the more simplified procedure of grouping the data. The procedure employed was as follows: 1. The numbers were first counted and sorted in ascending numerical order. 2. Then the appropriate percentages were multiplied times the total count. This result (c_i) determined how many numbers lay below the appropriate percentile. 3. The percentiles were found by counting up from the lowest number until the appropriate c_i was reached. The percentile, then, became an actual reported value by one case in the study. It should be added that when c_i resulted in a decimal value, only the whole number portion of c_i was used. This procedure avoided reporting artificial values as percentiles, or, more correctly, it allowed each percentile to be an actual reported value.

One can clearly get an idea of the range of hours spent reading each week by freshmen by viewing Tables 2, 3, and 4. The range seems to be generally between no hours and 40 hours.

TABLE 2

PERCENTILES FOR HOURS OF READING

OHIO RESIDENT FRESHMEN

WK	N	99TH	90TH	75TH	50TH	25TH	10TH	1ST
1	99	39.7	26.1	19.0	10.9	6.6	0.1	0.0
2	123	29.2	22.0	15.5	11.6	8.0	5.3	0.0
3	93	34.0	21.8	15.0	11.0	6.0	1.3	0.0
4	88	40.5	22.0	18.2	12.0	8.1	5.7	1.5
5	171	41.3	29.7	22.5	14.2	8.0	4.6	0.0
6	65	41.2	25.1	18.5	14.3	9.7	5.7	4.5
7	66	34.0	25.9	20.3	13.7	9.7	4.2	2.3
8	100	67.0	27.8	21.2	14.2	8.5	5.5	1.7
9	87	40.2	28.5	23.5	15.4	9.2	4.7	0.0
10	144	43.0	24.5	19.0	11.5	6.7	3.3	0.0
11	108	31.0	23.3	20.4	14.6	9.2	5.2	0.5
12	107	42.2	31.3	21.2	13.5	8.9	5.2	0.0
13	96	32.7	26.2	20.7	13.5	8.4	4.0	0.0
14	53	57.0	32.9	25.7	19.5	13.5	7.2	0.0
15	48	47.0	26.1	19.0	12.2	8.1	0.1	0.0
16	74	36.9	22.0	17.4	12.4	7.3	3.0	0.0
17	27	44.0	29.1	19.5	11.8	7.5	6.1	0.0
18	32	45.3	28.3	21.1	16.0	10.3	7.7	0.0
19	74	44.0	31.7	26.0	19.2	12.1	6.3	1.5
20	21	42.9	28.2	25.1	13.2	9.9	5.6	2.6
21	29	35.7	27.0	21.7	13.5	9.0	6.0	3.0
22	27	35.5	27.0	20.8	12.9	7.5	5.7	2.7
23	42	31.8	28.3	22.0	15.0	9.7	5.2	0.7
24	37	36.7	26.8	21.7	14.0	6.2	1.5	0.0
25	36	38.5	30.5	20.5	17.1	8.2	3.4	0.0
26	40	38.7	26.4	21.5	14.5	4.7	3.0	0.0
27	21	23.9	18.0	16.0	11.2	8.9	5.0	0.0
28	12	43.0	31.1	22.1	17.4	15.0	14.5	13.0
S#1	1400	40.2	26.2	20.1	13.2	8.1	4.5	0.0
S#2	520	42.9	28.0	21.2	14.7	8.6	4.5	0.0
YR	1920	40.5	26.5	20.5	13.5	8.3	4.5	0.0

TABLE 3

PERCENTILES FOR
HOURS OF READING

OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WK	N	99TH	90TH	75TH	50TH	25TH	10TH	1ST
1	74	38.8	23.8	18.3	10.8	6.9	1.5	0.0
2	95	33.2	22.8	16.8	11.3	8.2	5.4	0.0
3	72	34.0	19.5	14.1	10.2	6.0	2.7	0.0
4	53	40.5	24.1	17.9	11.3	7.8	5.7	1.5
5	136	41.3	29.7	21.6	14.0	8.0	4.5	0.0
6	49	39.8	25.1	18.2	14.3	9.9	5.1	4.5
7	55	34.0	25.9	21.2	13.7	9.7	4.2	2.3
8	74	95.0	27.8	20.7	14.2	9.6	5.6	1.7
9	74	40.2	28.5	23.5	15.7	9.2	4.7	0.0
10	107	43.0	24.1	19.2	12.2	7.2	4.2	0.0
11	83	49.2	23.9	21.0	14.2	9.0	5.2	0.5
12	73	89.1	28.9	21.2	13.0	8.8	4.3	0.0
13	77	32.7	26.6	20.8	14.4	9.0	4.2	0.0
14	38	57.0	37.9	27.7	19.9	13.0	5.1	0.0
15	40	47.0	24.8	19.5	12.2	8.1	0.1	0.0
16	60	36.9	21.5	17.4	12.6	8.4	2.0	0.0
17	22	44.0	18.5	14.3	11.0	7.3	6.1	0.0
18	26	45.3	28.3	25.8	16.0	10.3	3.7	0.0
19	61	44.0	31.7	26.4	20.1	10.7	6.3	1.5
20	17	42.9	28.9	25.2	14.2	9.8	4.9	2.6
21	22	27.0	22.7	20.4	13.3	10.2	7.7	4.4
22	21	28.0	26.7	19.9	12.9	7.5	5.9	2.7
23	37	31.8	28.5	22.0	15.0	9.7	5.1	0.7
24	30	35.5	25.5	21.7	13.7	7.5	1.1	0.0
25	27	38.5	32.7	21.2	16.4	6.3	1.7	0.0
26	28	38.7	26.4	21.5	14.5	11.3	3.2	0.0
27	17	23.9	21.2	16.0	13.5	8.9	5.0	0.0
28	9	43.1	43.0	23.5	18.2	16.5	14.6	14.5
S.1	1060	40.5	26.1	20.0	13.2	8.3	4.7	0.0
S.2	417	43.0	27.5	21.2	14.6	8.8	4.5	0.0
YR	1477	43.0	26.5	20.5	13.5	8.5	4.6	0.0

TABLE 4

PERCENTILES FOR HOURS OF READING

PAID FRESHMEN

WK	N	99TH	90TH	75TH	50TH	25TH	10TH	1ST
15	29	39.7	21.7	17.6	11.2	8.5	4.5	0.7
16	29	26.0	21.7	16.2	12.3	7.0	5.5	3.2
17	29	34.2	24.1	20.0	15.7	9.8	8.4	5.4
18	29	32.7	21.4	18.9	13.7	9.5	5.7	2.8
19	29	36.2	27.8	19.5	14.6	10.5	6.2	3.9
20	29	40.5	28.0	18.7	15.5	9.5	6.6	2.9
21	29	37.3	26.8	17.8	12.2	8.7	6.1	0.8
22	29	39.0	26.3	21.3	17.2	11.2	5.8	5.5
23	29	36.0	26.1	17.7	11.2	8.5	6.4	5.6
24	29	34.5	23.6	18.0	13.2	10.1	7.5	4.7
25	29	40.3	30.3	18.8	10.8	8.5	6.5	3.2
26	29	42.2	23.0	18.7	12.0	8.7	4.8	3.8
27	29	40.5	31.5	19.1	13.7	9.7	6.5	4.0
28	29	61.6	39.7	24.0	15.9	12.4	8.2	6.5
S.2	406	40.5	25.8	19.4	13.7	9.2	6.5	3.2

2. What is the number of pages of reading (in mean pages per week, mean pages per semester, and mean pages per academic year) done by college freshmen?

Table 1 shows the mean pages and standard deviations for the distributions of pages of reading during each week of the semester for the three groups of freshmen. In tabulating the data for number of pages, magazines, newspapers, and lecture notes were not included for the reason that these pages can be so variable. The mean number of pages seems to vary from week to week similar to the mean number of hours as discussed in objective 1.

The percentiles of number of pages of reading, shown in Tables 5, 6, and 7, were figured by the same technique as were the percentiles for objective 1, mean hours of reading.

In comparing percentiles in the Ohio resident freshmen group and the Ohio resident freshmen with ACT and GPA scores group, in 19 of the 24 weeks the ninety-ninth percentiles are the same, or the same person is represented in each. The majority of students who read the largest number of pages also had ACT and GPA scores available. If it is true that the students with ACT and GPA scores are more ambitious or more industrious than the students in the Ohio resident only group (for this group contains the students who dropped out of school for some reason), then one might assume that the majority of the students who reported the highest number of pages read are the brighter or more industrious students. For this reason, it might again seem that the results are

TABLE 5

PERCENTILES FOR PAGES OF READING

OHIO RESIDENT FRESHMEN

WK	N	99TH	90TH	75TH	50TH	25TH	10TH	1ST
1	99	1547.0	473.0	278.0	194.0	87.0	1.0	0.0
2	123	785.0	417.0	279.0	186.0	129.0	82.0	0.0
3	93	682.0	351.0	218.0	168.0	93.0	13.0	0.0
4	88	1428.0	581.0	320.0	170.0	103.0	61.0	0.0
5	171	1274.0	555.0	365.0	215.0	124.0	59.0	0.0
6	65	813.0	424.0	303.0	183.0	113.0	69.0	5.0
7	66	446.0	312.0	249.0	149.0	90.0	52.0	27.0
8	100	681.0	391.0	264.0	176.0	105.0	59.0	15.0
9	87	950.0	460.0	315.0	192.0	124.0	50.0	0.0
10	144	1045.0	462.0	241.0	126.0	57.0	30.0	0.0
11	108	1050.0	459.0	288.0	186.0	92.0	46.0	0.0
12	107	825.0	519.0	316.0	203.0	111.0	50.0	0.0
13	96	968.0	442.0	315.0	192.0	98.0	38.0	0.0
14	53	1104.0	650.0	534.0	240.0	173.0	60.0	0.0
15	48	2349.0	390.0	275.0	171.0	110.0	1.0	0.0
16	74	513.0	415.0	277.0	188.0	127.0	53.0	0.0
17	27	971.0	411.0	279.0	216.0	120.0	70.0	0.0
18	32	876.0	491.0	310.0	184.0	93.0	85.0	0.0
19	74	820.0	645.0	440.0	304.0	197.0	92.0	11.0
20	21	720.0	431.0	408.0	257.0	135.0	91.0	0.0
21	29	875.0	395.0	252.0	179.0	119.0	74.0	40.0
22	27	723.0	460.0	347.0	222.0	164.0	60.0	0.0
23	42	656.0	379.0	275.0	175.0	76.0	46.0	20.0
24	37	1008.0	496.0	277.0	139.0	99.0	3.0	0.0
25	36	640.0	487.0	366.0	181.0	110.0	12.0	0.0
26	40	1643.0	663.0	348.0	243.0	50.0	1.0	0.0
27	21	422.0	273.0	215.0	162.0	98.0	37.0	0.
28	12	880.0	815.0	385.0	302.0	266.0	240.0	191.
S#1	1400	1050.0	468.0	303.0	183.0	101.0	49.0	0.0
S#2	520	880.0	452.0	316.0	209.0	118.0	43.0	0.0
YR	1920	1008.0	462.0	306.0	190.0	106.0	49.0	0.0

TABLE 6

PERCENTILES FOR PAGES OF READING

OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WK	N	99TH	90TH	75TH	50TH	25TH	10TH	1ST
1	74	1547.0	426.0	288.0	194.0	95.0	27.0	0.0
2	95	971.0	420.0	294.0	197.0	131.0	82.0	0.0
3	72	682.0	319.0	215.0	158.0	93.0	47.0	0.0
4	53	1428.0	581.0	289.0	141.0	101.0	68.0	0.0
5	136	1262.0	559.0	365.0	212.0	127.0	59.0	0.0
6	49	813.0	425.0	319.0	220.0	117.0	60.0	5.0
7	55	446.0	321.0	257.0	144.0	90.0	52.0	27.0
8	74	1850.0	430.0	264.0	172.0	98.0	59.0	15.0
9	74	663.0	436.0	305.0	188.0	124.0	51.0	0.0
10	107	1045.0	462.0	241.0	141.0	73.0	42.0	0.0
11	83	1092.0	440.0	285.0	187.0	92.0	61.0	0.0
12	73	825.0	434.0	292.0	170.0	94.0	36.0	0.0
13	77	968.0	469.0	365.0	232.0	110.0	47.0	0.0
14	38	1104.0	720.0	534.0	235.0	128.0	47.0	0.0
15	40	2349.0	390.0	271.0	162.0	125.0	1.0	0.0
16	60	513.0	412.0	277.0	187.0	122.0	20.0	0.0
17	22	411.0	279.0	247.0	184.0	106.0	70.0	0.0
18	26	876.0	491.0	310.0	248.0	130.0	40.0	0.0
19	61	802.0	566.0	410.0	295.0	197.0	92.0	11.0
20	17	720.0	437.0	413.0	257.0	107.0	40.0	0.0
21	22	390.0	286.0	248.0	179.0	120.0	74.0	40.0
22	21	723.0	460.0	347.0	222.0	166.0	90.0	0.0
23	37	656.0	369.0	271.0	175.0	76.0	46.0	20.0
24	30	1008.0	496.0	277.0	139.0	105.0	1.0	0.0
25	27	640.0	487.0	366.0	181.0	52.0	10.0	0.0
26	28	1643.0	663.0	348.0	243.0	117.0	1.0	0.0
27	17	422.0	340.0	209.0	162.0	101.0	30.0	0.0
28	9	881.0	880.0	385.0	302.0	275.0	192.0	191.0
S.1	1060	1045.0	460.0	299.0	183.0	102.0	51.0	0.0
S.2	417	876.0	441.0	307.0	206.0	119.0	40.0	0.0
YR	1477	999.0	456.0	303.0	189.0	106.0	49.0	0.0

TABLE 7

PERCENTILES FOR PAGES OF READING

PAID FRESHMEN

WK	N	99TH	90TH	75TH	50TH	25TH	10TH	1ST
15	29	501.0	390.0	263.0	139.0	106.0	79.0	23.0
16	29	855.0	343.0	264.0	146.0	89.0	71.0	42.0
17	29	935.0	499.0	306.0	173.0	130.0	68.0	40.0
18	29	502.0	339.0	210.0	159.0	115.0	70.0	41.0
19	29	747.0	626.0	368.0	243.0	156.0	105.0	69.0
20	29	871.0	451.0	323.0	250.0	190.0	97.0	44.0
21	29	533.0	369.0	273.0	193.0	90.0	32.0	10.0
22	29	626.0	520.0	292.0	187.0	84.0	59.0	10.0
23	29	826.0	344.0	260.0	120.0	75.0	45.0	38.0
24	29	432.0	328.0	214.0	130.0	82.0	18.0	3.0
25	29	530.0	389.0	284.0	122.0	77.0	35.0	0.0
26	29	674.0	512.0	295.0	186.0	94.0	66.0	10.0
27	29	549.0	396.0	264.0	184.0	103.0	45.0	0.0
28	29	775.0	705.0	410.0	185.0	95.0	49.0	0.0
S.2	406	775.0	410.0	292.0	175.0	99.0	60.0	5.0

more reliable than some have reported for studies of this nature (Arsenian, 1942, p. 302). Stoke and Lehman (1930) also suggest that the less bright students report higher estimates. If we accept certain assumptions it seems that the present study does not support these contentions.

The ninety-ninth percentiles representing pages for the paid freshmen group contain no entries with over 935 pages, whereas the other groups contain entries of over 1,000 pages including one entry in each group of over 2,000 pages, this entry representing the same student. In this instance it seems that the other two groups may have exaggerated and that the paid freshmen may have been more honest.

3. What are the mean number of pages and the mean number of hours freshmen read in different kinds of materials, required and unrequired, in each week, in each semester, and in an academic year? Magazines and newspapers, and lecture notes are only included in the hours data.

Tables 8, 9, and 10 show the mean number of pages read in the various subject areas by the three groups of freshmen.

The freshmen English curriculum includes a composition course in the first semester and a literature course in the second semester. This accounts for the large increase in number of pages read during the second semester in English.

The numbers of pages of reading in the other subject areas seem to stay fairly constant except for some areas. The number of required pages read increases during the fourteenth week which is the week before final exams. The number

TABLE 8

MEAN NUMBER OF PAGES READ IN VARIOUS SUBJECTS PER WEEK, PER SEMESTER, AND PER YEAR BY THE TOTAL OHIO RESIDENT FRESHMEN

Week	N	Eng.	Math	Nat.Sci.	Soc.Sci.	Hum.	Lit.	Required	Unrequired
1	99	55.00	24.00	29.00	48.00	20.00	54.00	164.00	65.00
2	123	57.00	19.00	21.00	66.00	11.00	57.00	160.00	70.00
3	93	46.00	16.00	24.00	51.00	9.00	31.00	139.00	41.00
4	88	44.00	25.00	35.00	71.00	24.00	52.00	195.00	82.00
5	171	43.00	21.00	42.00	125.00	19.00	23.00	230.00	53.00
6	66	44.00	33.00	38.00	54.00	31.00	18.00	180.00	61.00
7	66	38.00	18.00	21.00	64.00	10.00	21.00	146.00	30.00
8	100	46.00	32.00	31.00	67.00	13.00	31.00	171.00	51.00
9	87	26.00	38.00	27.00	98.00	14.00	22.00	185.00	44.00
10	144	28.00	30.00	37.00	68.00	13.00	21.00	151.00	48.00
11	108	31.00	28.00	42.00	65.00	22.00	42.00	166.00	60.00
12	107	22.00	23.00	28.00	86.00	16.00	50.00	179.00	66.00
13	96	47.00	12.00	37.00	88.00	13.00	35.00	181.00	54.00
14	53	34.00	37.00	42.00	160.00	32.00	34.00	258.00	83.00
15	48	77.00	23.00	14.00	65.00	26.00	27.00	197.00	39.00
16	74	80.00	18.00	23.00	51.00	9.00	26.00	173.00	42.00
17	27	104.00	17.00	7.00	66.00	10.00	27.00	209.00	25.00
18	32	114.00	23.00	27.00	46.00	24.00	22.00	220.00	41.00
19	74	119.00	32.00	44.00	102.00	11.00	23.00	282.00	52.00
20	21	119.00	24.00	24.00	75.00	5.00	16.00	246.00	18.00
21	29	71.00	41.00	24.00	56.00	12.00	9.00	196.00	18.00
22	27	67.00	13.00	11.00	101.00	26.00	27.00	194.00	64.00
23	42	37.00	17.00	29.00	71.00	11.00	32.00	163.00	37.00
24	37	44.00	24.00	16.00	81.00	14.00	34.00	176.00	38.00
25	36	77.00	24.00	26.00	62.00	14.00	22.00	196.00	31.00
26	40	83.00	18.00	27.00	106.00	13.00	53.00	229.00	67.00
27	21	53.00	13.00	8.00	53.00	13.00	18.00	131.00	30.00
28	12	43.00	55.00	19.00	208.00	32.00	35.00	332.00	62.00
1st Sem.	1401	40.00	25.00	33.00	79.00	17.00	35.00	179.00	57.00
2nd Sem.	520	81.00	23.00	24.00	76.00	15.00	27.00	208.00	41.00
Year	1921	51.00	24.00	30.00	79.00	16.00	33.00	187.00	53.00

TABLE 9

MEAN NUMBER OF PAGES READ IN VARIOUS SUBJECTS PER WEEK, PER SEMESTER, AND PER YEAR BY THE OHIO RESIDENT FRESHMEN WITH ACT AND GPA SCORES

Week	N	Eng.	Math	Nat.Sci.	Soc.Sci.	Hum.	Lit.	Required	Unrequired
1	73	59.00	25.00	26.00	54.00	23.00	55.00	176.00	61.00
2	95	60.00	21.00	18.00	67.00	12.00	65.00	162.00	80.00
3	71	48.00	14.00	20.00	51.00	10.00	29.00	136.00	40.00
4	53	42.00	23.00	38.00	69.00	29.00	38.00	223.00	60.00
5	136	43.00	23.00	46.00	113.00	22.00	26.00	221.00	63.00
6	49	48.00	36.00	38.00	59.00	22.00	22.00	167.00	76.00
7	54	39.00	15.00	24.00	65.00	8.00	21.00	145.00	32.00
8	71	47.00	33.00	29.00	74.00	10.00	30.00	174.00	50.00
9	74	25.00	39.00	28.00	97.00	12.00	17.00	180.00	40.00
10	107	28.00	26.00	41.00	78.00	15.00	21.00	157.00	54.00
11	83	29.00	31.00	40.00	67.00	18.00	43.00	161.00	61.00
12	71	19.00	24.00	23.00	86.00	14.00	29.00	163.00	48.00
13	77	50.00	12.00	42.00	94.00	14.00	44.00	194.00	63.00
14	38	40.00	32.00	53.00	147.00	33.00	26.00	241.00	92.00
15	40	85.00	22.00	11.00	71.00	29.00	25.00	210.00	37.00
16	60	79.00	16.00	22.00	52.00	9.00	24.00	175.00	35.00
17	22	77.00	16.00	4.00	62.00	12.00	10.00	180.00	3.00
18	26	115.00	18.00	28.00	54.00	26.00	23.00	232.00	37.00
19	61	105.00	27.00	48.00	102.00	12.00	28.00	269.00	53.00
20	17	120.00	26.00	26.00	75.00	4.00	16.00	250.00	19.00
21	22	52.00	22.00	23.00	57.00	16.00	12.00	160.00	24.00
22	21	74.00	10.00	11.00	115.00	10.00	32.00	194.00	73.00
23	37	35.00	19.00	33.00	64.00	9.00	27.00	156.00	32.00
24	30	37.00	27.00	12.00	87.00	16.00	42.00	177.00	46.00
25	27	76.00	23.00	22.00	58.00	10.00	20.00	184.00	27.00
26	28	98.00	18.00	24.00	103.00	18.00	33.00	236.00	53.00
27	17	44.00	13.00	10.00	63.00	10.00	23.00	128.00	37.00
28	9	41.00	98.00	44.00	169.00	39.00	65.00	364.00	92.00
1st Sem.	1060	41.00	25.00	33.00	80.00	17.00	34.00	178.00	58.00
2nd Sem.	417	77.00	22.00	24.00	77.00	15.00	26.00	205.00	40.00
Year	1477	51.00	24.00	31.00	79.00	16.00	32.00	186.00	53.00

TABLE 10

MEAN NUMBER OF PAGES READ IN VARIOUS SUBJECTS PER WEEK, PER SEMESTER, AND PER YEAR BY THE 29 PAID FRESHMEN

Week	N	Eng.	Math	Nat.Sci.	Soc.Sci.	Hum.	Lit.	Required	Unrequired
15	29	52.00	27.00	8.00	46.00	10.00	38.00	131.00	54.00
16	29	89.00	20.00	13.00	34.00	6.00	37.00	149.00	54.00
17	29	76.00	24.00	14.00	52.00	8.00	61.00	159.00	78.00
18	29	72.00	18.00	18.00	48.00	5.00	20.00	147.00	33.00
19	29	127.00	24.00	16.00	71.00	33.00	17.00	248.00	42.00
20	29	92.00	24.00	27.00	67.00	35.00	15.00	242.00	26.00
21	29	74.00	22.00	20.00	49.00	5.00	24.00	174.00	24.00
22	29	54.00	18.00	28.00	65.00	5.00	48.00	187.00	40.00
23	29	57.00	14.00	25.00	49.00	10.00	29.00	155.00	38.00
24	29	42.00	14.00	22.00	62.00	6.00	13.00	142.00	15.00
25	29	46.00	16.00	20.00	59.00	2.00	31.00	142.00	31.00
26	29	71.00	15.00	13.00	65.00	7.00	56.00	172.00	60.00
27	29	39.00	14.00	32.00	73.00	11.00	23.00	171.00	23.00
28	29	41.00	32.00	32.00	121.00	22.00	25.00	249.00	29.00
2nd Sem.	406	67.00	20.00	20.00	61.00	12.00	31.00	176.00	39.00
Year	406	67.00	20.00	20.00	61.00	12.00	31.00	176.00	39.00

of pages of reading seems to increase during the weeks just prior to examinations, weeks 8, 9, 14, and 28. Freshmen seem to read more pages in the Social Sciences and English than in other subject areas.

Tables 11, 12, and 13 show the mean number of hours spent reading in the various subject areas by the three groups of freshmen. The mean number of hours generally seems to agree among the three groups of freshmen.

The number of hours devoted to English and Social Science seems to be the greatest of the various subject areas.

The number of hours spent reading lecture notes follows the general trend and increases during the week prior to examinations (week 14).

The number of hours devoted to newspapers, magazines, and literature (unrequired novels) exceeds three hours during every week of the academic year. This finding negates the inference made by Terman and Lima (1927, p. 28) and others that students do not read unrequired material. Possibly an interest of students in current events, and the Viet Nam war in particular, accounts for the mean of 2.02 hours per week spent reading magazines and newspapers.

The mean hours spent reading as shown in Table 1 was approximately 14 hours per week. Of these 14 hours, as seen in Tables 11, 12, and 13, approximately four were devoted to unrequired reading. This makes the number of hours spent reading per week seem even less. It also further substantiates the conjecture that the freshmen did not

TABLE 11

MEAN NUMBER OF HOURS SPENT READING VARIOUS SUBJECTS PER WEEK, PER SEMESTER, AND PER YEAR BY THE TOTAL OHIO RESIDENT FRESHMEN

Week	N	Eng.	Math	Nat.Sci.	Soc.Sci.	Hum.	Lit.	Mag.-Nws.	Notes	Req'd.	Unreq'd.
1	99	2.84	1.72	2.00	2.91	1.10	1.06	1.27	0.23	9.78	2.84
2	123	2.27	1.34	1.44	3.43	0.62	1.04	1.90	0.48	8.53	3.83
3	93	1.88	1.42	1.67	2.69	0.54	0.74	1.72	0.44	8.06	2.94
4	88	1.84	1.86	1.72	3.03	0.96	1.14	1.56	0.92	8.60	4.34
5	171	1.74	1.60	2.01	5.05	0.96	0.61	1.89	2.05	11.43	4.40
6	66	1.84	2.29	2.40	2.57	1.61	0.60	2.19	1.85	9.97	5.63
7	66	2.10	2.09	2.04	4.03	0.71	0.59	2.22	1.47	11.33	3.69
8	100	1.89	2.86	2.31	3.35	1.16	0.68	1.90	1.07	10.99	4.02
9	87	1.78	3.35	1.82	4.93	0.87	0.52	1.89	1.45	12.86	3.65
10	144	1.16	1.82	2.16	3.17	0.87	0.60	2.26	1.20	8.94	4.30
11	108	1.40	2.01	2.68	3.22	1.12	0.79	2.86	0.78	10.33	4.59
12	107	1.06	2.13	1.75	4.73	0.66	1.19	2.67	1.63	10.30	5.52
13	96	2.00	1.12	2.36	5.01	0.76	0.81	1.91	0.59	10.72	3.95
14	53	1.34	1.40	2.31	7.34	1.54	0.94	1.81	3.25	13.48	6.56
15	48	4.09	2.25	1.09	3.39	0.75	0.96	1.68	0.01	11.03	3.21
16	74	4.31	1.76	1.50	2.73	0.54	0.67	1.30	0.19	10.58	2.40
17	27	5.82	1.26	0.58	3.88	0.42	0.63	1.81	0.31	11.73	2.97
18	32	4.91	1.90	1.89	2.79	1.24	0.57	2.08	1.57	13.35	3.70
19	74	4.17	2.60	2.82	5.17	0.66	0.52	1.62	1.98	14.51	5.05
20	21	4.34	2.42	2.09	3.62	0.40	0.38	1.16	1.78	12.34	3.88
21	29	2.95	3.14	1.66	3.66	0.79	0.25	2.06	1.37	12.38	3.65
22	27	2.79	1.86	1.03	4.88	1.14	0.56	2.06	0.82	10.77	4.35
23	42	2.41	2.47	2.13	4.33	0.78	1.02	1.73	0.99	12.45	3.51
24	37	2.36	2.31	0.90	3.52	0.53	1.19	2.55	1.41	9.85	4.93
25	36	3.54	2.99	1.78	3.12	1.20	0.53	2.03	1.11	12.59	3.74
26	40	2.43	1.83	1.51	3.81	0.48	0.88	3.00	1.01	9.39	5.57
27	21	2.73	1.50	0.95	2.82	0.61	0.27	2.73	0.36	8.41	3.77
28	12	2.47	2.87	0.74	7.76	1.15	0.81	1.18	3.64	16.48	4.14
1st Sem.	1401	1.78	1.90	2.03	3.90	.928	.802	2.02	1.19	10.24	4.23
2nd Sem.	520	3.64	2.22	1.62	3.82	.729	.685	1.89	1.05	11.75	4.89
Year	1921	2.28	1.99	1.92	3.88	.874	.770	1.98	1.15	10.65	4.14

TABLE 12

MEAN NUMBER OF HOURS SPENT READING VARIOUS SUBJECTS PER WEEK, PER SEMESTER, AND PER YEAR BY THE OHIO RESIDENT FRESHMEN WITH ACT AND GPA SCORES

Week	N	Eng.	Math	Nat.Sci.	Soc.Sci.	Hum.	Lit.	Mag-Nws.	Notes	Req'd.	Unreq'd.
1	73	2.80	1.58	1.67	3.24	1.22	1.22	1.33	0.23	9.92	2.72
2	95	2.33	1.45	1.38	3.56	0.62	1.14	1.93	0.44	8.73	4.00
3	71	1.93	1.22	1.58	2.68	0.56	0.66	1.65	0.43	7.62	2.89
4	53	1.94	1.97	1.90	2.90	1.21	0.83	1.67	0.97	9.31	4.05
5	136	1.68	1.66	2.18	4.91	1.01	0.64	1.84	1.92	11.29	4.45
6	49	1.95	2.23	1.99	2.70	1.05	0.70	2.34	1.86	8.77	6.28
7	54	2.09	1.84	2.38	4.05	0.71	0.58	2.18	1.30	11.25	3.75
8	71	1.73	2.75	2.14	3.69	1.03	0.68	2.06	0.99	10.71	4.11
9	74	1.82	3.54	1.99	4.98	0.84	0.48	1.89	1.35	13.19	3.77
10	107	1.17	1.76	2.31	3.63	1.03	0.54	2.31	1.09	9.39	4.41
11	83	1.31	2.18	2.55	3.30	1.04	0.81	2.88	0.76	10.23	4.66
12	71	0.86	1.98	1.58	4.71	0.70	0.59	2.75	1.31	9.31	5.18
13	77	2.02	1.06	2.53	5.30	0.80	0.99	2.04	0.45	10.87	4.34
14	38	1.39	1.54	2.90	7.13	1.66	0.83	1.82	3.69	13.68	7.46
15	40	4.51	2.17	0.84	3.59	0.73	0.85	1.78	0.01	11.43	3.08
16	60	4.31	1.65	1.38	2.84	0.60	0.65	1.34	0.24	10.60	2.40
17	22	4.29	1.02	0.30	3.59	0.51	0.32	1.70	0.38	10.13	1.99
18	26	5.17	1.25	1.97	3.10	1.35	0.51	1.97	1.69	13.83	3.28
19	61	4.09	2.58	3.02	5.11	0.63	0.60	1.75	2.13	14.56	5.36
20	17	4.38	2.64	2.19	3.97	0.32	0.32	1.05	1.72	12.86	3.79
21	22	2.79	2.08	1.64	3.90	1.04	0.33	1.86	1.19	11.00	4.01
22	21	3.04	1.46	0.88	5.49	0.50	0.68	1.57	0.66	10.17	4.11
23	37	2.38	2.64	2.25	4.01	0.67	0.91	1.83	1.13	12.34	3.58
24	30	1.82	2.66	0.71	3.72	0.50	1.47	2.36	1.15	9.54	4.85
25	27	3.65	3.21	1.49	3.11	1.10	0.48	1.78	0.35	12.09	3.09
26	28	2.70	1.61	1.75	3.67	0.62	0.63	3.52	1.14	9.30	6.35
27	17	2.66	1.39	1.17	3.24	0.57	0.34	2.75	0.33	8.81	3.86
28	9	2.15	4.80	1.61	6.52	1.38	1.40	1.47	3.97	18.36	4.94
1st Sem.	1060	1.77	1.89	2.06	4.03	0.94	0.76	2.06	1.12	10.23	4.30
2nd Sem.	417	3.59	2.15	1.63	3.88	0.72	0.68	1.88	1.03	11.72	3.87
Year	1477	2.29	1.96	1.93	3.99	0.87	0.74	2.01	1.09	10.65	4.18

TABLE 13

MEAN NUMBER OF HOURS SPENT READING VARIOUS SUBJECTS PER WEEK, PER SEMESTER, AND PER YEAR BY THE 29 PAID FRESHMEN

Week	N	Eng.	Math	Nat.Sci.	Soc.Sci.	Hum.	Lit.	Mag.-Nws.	Notes	Req'd.	Unreq'd.
15	29	3.28	2.09	0.61	3.43	0.66	0.82	1.90	0.03	9.58	3.28
16	29	4.76	1.78	0.94	2.31	0.52	0.46	1.78	0.03	9.81	2.74
17	29	4.52	2.01	0.97	3.18	0.57	1.17	2.12	1.11	10.54	5.10
18	29	3.96	1.68	1.18	3.01	0.22	0.31	2.32	1.25	9.27	4.68
19	29	4.88	2.09	1.15	3.73	1.02	0.52	2.06	0.73	11.62	4.57
20	29	4.14	1.93	1.33	3.29	0.71	0.43	2.49	1.38	11.40	4.24
21	29	3.33	2.09	1.41	2.87	0.73	0.54	2.34	0.94	10.13	4.25
22	29	3.05	1.85	2.08	4.21	0.24	1.08	3.46	0.91	11.64	5.57
23	29	3.72	1.61	1.79	2.99	0.39	0.79	1.37	1.03	10.27	3.98
24	29	2.44	1.20	1.99	3.96	0.47	0.34	2.81	0.94	10.03	4.32
25	29	2.96	2.12	1.08	3.83	0.14	0.71	2.89	0.80	10.09	4.44
26	29	3.43	1.53	0.80	3.94	0.47	1.20	2.19	0.78	9.66	4.19
27	29	2.75	1.29	2.20	4.04	0.64	0.52	2.94	0.89	11.04	4.56
28	29	2.78	2.62	1.50	6.70	1.10	0.64	2.66	2.45	14.70	5.75
2nd Sem.	29	3.57	1.85	1.36	3.68	0.56	0.68	2.38	0.95	10.70	4.41
Year	406	3.57	1.85	1.36	3.68	0.56	0.68	2.38	0.95	10.70	4.41

err on the high side in reporting their hours and pages of reading.

4. How does the average college freshman distribute his time in reading among the various kinds of material in the first semester, in the second semester, and in the academic year?

Table 14 shows the percentages of total reading time spent reading various subjects by the three groups of freshmen.

As noted in objective 3, the second semester of the English curriculum at Ohio University is devoted to literature whereas the first semester is concerned with composition. This accounts for the higher percentage the second semester.

As noted in objective 3 also, Social Science and the second semester of English receive the highest allocation of time from the freshmen. Also the percentage of time devoted to literature (unrequired novels) and magazines and newspapers substantiates the idea that students do read material other than what is required of them.

The three groups of freshmen seem to devote approximately the same percentages of time to each subject area. The paid freshmen group read a slightly higher percentage of magazine and newspaper material. Perhaps this was because they were paid and were more conscious of the time they spent in leisure reading. The paid freshmen group read a slightly lower percentage of Humanities and Natural Science material than did the other two groups.

TABLE 14

PERCENTAGES OF TOTAL READING TIME SPENT READING VARIOUS SUBJECTS BY THREE GROUPS OF OHIO RESIDENT FRESHMEN

Semester	N	Eng.	Math	Nat.Sci.	Soc.Sci.	Hum.	Lit.	Mag.-News.	Class Notes
Total Ohio Resident Freshmen									
First	1401	12.2	13.0	14.0	26.8	6.4	5.5	13.9	8.2
Second	520	23.2	14.2	10.4	24.4	4.7	4.4	12.1	6.7
Ohio Resident Freshmen with ACT and GPA Scores									
First	1060	12.1	12.9	14.1	27.6	6.4	5.2	14.1	7.7
Second	417	23.2	13.7	10.4	25.1	4.6	4.3	12.1	6.6
Paid Freshmen									
Second	406	23.8	12.3	9.0	24.5	3.7	4.5	15.8	6.3

5. What are the relationships between the total time spent reading, the required time and number of pages, the unrequired time and number of pages, and the time and number of pages of reading in the different kinds of reading material read by college freshmen during each week in the academic year, in each semester, and in the academic year and the two variables?

Tables 15, 16, and 17 show the product-moment correlation coefficients for pages and hours of reading versus ACT composite scores and GPA scores for Ohio Resident Freshmen, for the first semester, the second semester, and the academic year. Tables 18, 19, and 20 show the same data for the Ohio Resident Freshmen with ACT and GPA Scores. Table 21 shows the same data for the Paid Freshmen during the second semester only. The product-moment correlation coefficients for each week of the academic year for each of the three groups of freshmen appear in Appendix 11.

The product-moment correlation coefficients appearing in Tables 15, 16, and 17 were computed from the data of the total sample in the first semester, the second semester, and the year. The correlation coefficients were computed normally as if collected at the same time, when in reality, they were from different numbers of different freshmen during different weeks. One way of comparing more than two independent correlations, or the coefficients, from the various weeks in this case, is by the use of Fisher's z transformation. Since the samples in each week are not of equal size, the procedure is modified slightly by appropriate weights to

TABLE 15
PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE-POINT AVERAGES OHIO RESIDENT FRESHMEN

FIRST SEMESTER

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	1149	232.08	205.04	0.23	0.04	0.01
TOTAL HOURS	1149	1.47	0.94	0.23	0.04	-0.08
REQUIRED PAGES	1149	177.56	176.26	0.23	0.04	-0.01
REQUIRED HOURS	1149	1.02	0.74	0.23	0.04	-0.09
UNREQD PAGES	1149	58.18	119.79	0.23	0.04	0.05
UNREQD HOURS	1149	0.43	0.46	0.23	0.04	0.01
ENGLISH HOURS	1149	0.18	0.22	0.23	0.04	-0.03
MATH HOURS	1149	0.19	0.30	0.23	0.04	0.09
NAT SCI HOURS	1149	0.21	0.32	0.23	0.04	0.01
SOC SCI HOURS	1149	0.40	0.55	0.23	0.04	-0.16
HUMANITIES HRS	1149	0.09	0.22	0.23	0.04	-0.04
LITERATURE HRS	1149	0.08	0.20	0.23	0.04	0.07
MAG-NEWS HOURS	1149	0.20	0.23	0.23	0.04	0.10
NOTES HOURS	1149	0.11	0.28	0.23	0.04	-0.09
ENGLISH PAGES	1149	40.89	66.08	0.23	0.04	0.02
MATH PAGES	1149	24.98	47.25	0.23	0.04	0.11
NAT SCI PAGES	1149	34.04	62.30	0.23	0.04	0.03
SOC SCI PAGES	1149	80.19	118.10	0.23	0.04	-0.13
HUMANITIES PGS	1149	17.07	45.11	0.23	0.04	0.01
LITERATURE PGS	1149	34.25	99.91	0.23	0.04	0.09

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	1236	233.80	201.72	2.12	0.65	-0.01
TOTAL HOURS	1236	1.47	0.92	2.12	0.65	0.02
REQUIRED PAGES	1236	180.03	174.22	2.12	0.65	0.00
REQUIRED HOURS	1236	1.03	0.73	2.12	0.65	0.02
UNREQD PAGES	1236	57.27	115.49	2.12	0.65	-0.02
UNREQD HOURS	1236	0.43	0.45	2.12	0.65	0.00
ENGLISH HOURS	1236	0.18	0.22	2.12	0.65	0.04
MATH HOURS	1236	0.19	0.30	2.12	0.65	-0.01
NAT SCI HOURS	1236	0.21	0.31	2.12	0.65	0.01
SOC SCI HOURS	1236	0.40	0.55	2.12	0.65	-0.03
HUMANITIES HRS	1236	0.09	0.21	2.12	0.65	-0.03
LITERATURE HRS	1236	0.08	0.18	2.12	0.65	-0.05
MAG-NEWS HOURS	1236	0.21	0.23	2.12	0.65	0.03
NOTES HOURS	1236	0.12	0.29	2.12	0.65	0.03
ENGLISH PAGES	1236	41.03	65.37	2.12	0.65	0.05
MATH PAGES	1236	25.19	47.44	2.12	0.65	-0.01
NAT SCI PAGES	1236	33.81	60.42	2.12	0.65	0.01
SOC SCI PAGES	1236	81.35	119.31	2.12	0.65	-0.01
HUMANITIES PGS	1236	17.64	47.19	2.12	0.65	-0.03
LITERATURE PGS	1236	34.31	95.34	2.12	0.65	-0.03

TABLE 16

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE-POINT AVERAGES OHIO RESIDENT FRESHMEN

SECOND SEMESTER

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	419	243.05	210.58	0.23	0.04	0.06
TOTAL HOURS	419	1.55	0.92	0.23	0.04	0.01
REQUIRED PAGES	419	204.21	196.23	0.23	0.04	-0.01
REQUIRED HOURS	419	1.17	0.81	0.23	0.04	-0.08
UNREQD PAGES	419	39.66	91.06	0.23	0.04	0.15
UNREQD HOURS	419	0.38	0.47	0.23	0.04	0.14
ENGLISH HOURS	419	0.36	0.37	0.23	0.04	-0.18
MATH HOURS	419	0.21	0.36	0.23	0.04	0.07
NAT SCI HOURS	419	0.16	0.30	0.23	0.04	0.05
SOC SCI HOURS	419	0.39	0.45	0.23	0.04	-0.08
HUMANITIES HRS	419	0.07	0.17	0.23	0.04	-0.03
LITERATURE HRS	419	0.07	0.22	0.23	0.04	0.13
MAG-NEWS HOURS	419	0.19	0.23	0.23	0.04	0.16
NOTES HOURS	419	0.10	0.27	0.23	0.04	0.02
ENGLISH PAGES	419	77.81	106.45	0.23	0.04	-0.08
MATH PAGES	419	21.95	45.03	0.23	0.04	0.05
NAT SCI PAGES	419	24.43	47.97	0.23	0.04	0.08
SOC SCI PAGES	419	77.22	107.05	0.23	0.04	-0.00
HUMANITIES PGS	419	15.27	45.37	0.23	0.04	0.04
LITERATURE PGS	419	25.83	82.78	0.23	0.04	0.16

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	508	252.27	214.14	2.30	0.68	-0.04
TOTAL HOURS	508	1.57	0.92	2.30	0.68	0.08
REQUIRED PAGES	508	211.20	193.95	2.30	0.68	-0.06
REQUIRED HOURS	508	1.18	0.80	2.30	0.68	0.05
UNREQD PAGES	508	42.06	97.86	2.30	0.68	0.04
UNREQD HOURS	508	0.39	0.46	2.30	0.68	0.08
ENGLISH HOURS	508	0.37	0.39	2.30	0.68	-0.01
MATH HOURS	508	0.22	0.36	2.30	0.68	-0.02
NAT SCI HOURS	508	0.16	0.28	2.30	0.68	0.11
SOC SCI HOURS	508	0.39	0.45	2.30	0.68	0.04
HUMANITIES HRS	508	0.07	0.17	2.30	0.68	0.06
LITERATURE HRS	508	0.07	0.22	2.30	0.68	0.00
MAG-NEWS HOURS	508	0.19	0.23	2.30	0.68	0.07
NOTES HOURS	508	0.10	0.27	2.30	0.68	0.04
ENGLISH PAGES	508	82.60	113.39	2.30	0.68	-0.06
MATH PAGES	508	23.84	48.48	2.30	0.68	-0.06
NAT SCI PAGES	508	24.36	48.06	2.30	0.68	0.11
SOC SCI PAGES	508	78.23	105.70	2.30	0.68	-0.03
HUMANITIES PGS	508	15.07	46.15	2.30	0.68	-0.00
LITERATURE PGS	508	27.71	87.95	2.30	0.68	-0.03

TABLE 17
PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE-POINT AVERAGES OHIO RESIDENT FRESHMEN

ACADEMIC YEAR

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	1568	235.01	206.59	0.23	0.04	0.02
TOTAL HOURS	1568	1.49	0.94	0.23	0.04	-0.05
REQUIRED PAGES	1568	184.68	182.19	0.23	0.04	-0.01
REQUIRED HOURS	1568	1.06	0.76	0.23	0.04	-0.09
UNREQD PAGES	1568	53.23	113.13	0.23	0.04	0.07
UNREQD HOURS	1568	0.41	0.46	0.23	0.04	0.04
ENGLISH HOURS	1568	0.23	0.28	0.23	0.04	-0.07
MATH HOURS	1568	0.20	0.32	0.23	0.04	0.08
NAT SCI HOURS	1568	0.19	0.31	0.23	0.04	0.02
SOC SCI HOURS	1568	0.40	0.53	0.23	0.04	-0.14
HUMANITIES HRS	1568	0.09	0.20	0.23	0.04	-0.04
LITERATURE HRS	1568	0.07	0.20	0.23	0.04	0.09
MAG-NEWS HOURS	1568	0.20	0.23	0.23	0.04	0.12
NOTES HOURS	1568	0.11	0.28	0.23	0.04	-0.06
ENGLISH PAGES	1568	50.75	80.59	0.23	0.04	-0.01
MATH PAGES	1568	24.17	46.69	0.23	0.04	0.10
NAT SCI PAGES	1568	31.47	58.97	0.23	0.04	0.04
SOC SCI PAGES	1568	79.40	115.26	0.23	0.04	-0.10
HUMANITIES PGS	1568	16.59	45.19	0.23	0.04	0.02
LITERATURE PGS	1568	32.00	95.71	0.23	0.04	0.10

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	1744	239.18	205.59	2.17	0.66	-0.01
TOTAL HOURS	1744	1.50	0.92	2.17	0.66	0.04
REQUIRED PAGES	1744	189.11	180.74	2.17	0.66	-0.01
REQUIRED HOURS	1744	1.07	0.76	2.17	0.66	0.04
UNREQD PAGES	1744	52.84	110.86	2.17	0.66	-0.02
UNREQD HOURS	1744	0.42	0.45	2.17	0.66	0.02
ENGLISH HOURS	1744	0.23	0.29	2.17	0.66	0.05
MATH HOURS	1744	0.20	0.32	2.17	0.66	-0.00
NAT SCI HOURS	1744	0.19	0.30	2.17	0.66	0.03
SOC SCI HOURS	1744	0.40	0.52	2.17	0.66	-0.01
HUMANITIES HRS	1744	0.09	0.20	2.17	0.66	-0.01
LITERATURE HRS	1744	0.07	0.19	2.17	0.66	-0.03
MAG-NEWS HOURS	1744	0.20	0.23	2.17	0.66	0.04
NOTES HOURS	1744	0.11	0.28	2.17	0.66	0.03
ENGLISH PAGES	1744	53.14	84.44	2.17	0.66	0.03
MATH PAGES	1744	24.80	47.75	2.17	0.66	-0.03
NAT SCI PAGES	1744	31.06	57.26	2.17	0.66	0.03
SOC SCI PAGES	1744	80.44	115.52	2.17	0.66	-0.02
HUMANITIES PGS	1744	16.89	46.90	2.17	0.66	-0.03
LITERATURE PGS	1744	32.39	93.30	2.17	0.66	-0.03

TABLE 18
PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE-POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

FIRST SEMESTER

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	1060	233.14	202.28	0.23	0.04	0.01
TOTAL HOURS	1060	1.47	0.91	0.23	0.04	-0.07
REQUIRED PAGES	1060	178.45	174.20	0.23	0.04	-0.00
REQUIRED HOURS	1060	1.02	0.73	0.23	0.04	-0.09
UNREQD PAGES	1060	58.57	118.08	0.23	0.04	0.05
UNREQD HOURS	1060	0.43	0.45	0.23	0.04	0.01
ENGLISH HOURS	1060	0.18	0.21	0.23	0.04	-0.02
MATH HOURS	1060	0.19	0.29	0.23	0.04	0.10
NAT SCI HOURS	1060	0.21	0.31	0.23	0.04	0.00
SOC SCI HOURS	1060	0.40	0.51	0.23	0.04	-0.18
HUMANITIES HRS	1060	0.09	0.21	0.23	0.04	-0.03
LITERATURE HRS	1060	0.08	0.19	0.23	0.04	0.09
MAG-NEWS HOURS	1060	0.21	0.22	0.23	0.04	0.10
NOTES HOURS	1060	0.11	0.28	0.23	0.04	-0.07
ENGLISH PAGES	1060	41.40	66.36	0.23	0.04	0.03
MATH PAGES	1060	25.22	47.90	0.23	0.04	0.11
NAT SCI PAGES	1060	33.90	61.23	0.23	0.04	0.01
SOC SCI PAGES	1060	80.82	117.41	0.23	0.04	-0.12
HUMANITIES PGS	1060	17.26	45.75	0.23	0.04	0.02
LITERATURE PGS	1060	34.17	97.10	0.23	0.04	0.10

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	1060	233.14	202.28	2.14	0.63	-0.01
TOTAL HOURS	1060	1.47	0.91	2.14	0.63	-0.01
REQUIRED PAGES	1060	178.45	174.20	2.14	0.63	0.02
REQUIRED HOURS	1060	1.02	0.73	2.14	0.63	0.01
UNREQD PAGES	1060	58.57	118.08	2.14	0.63	-0.04
UNREQD HOURS	1060	0.43	0.45	2.14	0.63	0.01
ENGLISH HOURS	1060	0.18	0.21	2.14	0.63	0.06
MATH HOURS	1060	0.19	0.29	2.14	0.63	-0.00
NAT SCI HOURS	1060	0.21	0.31	2.14	0.63	0.00
SOC SCI HOURS	1060	0.40	0.51	2.14	0.63	-0.01
HUMANITIES HRS	1060	0.09	0.21	2.14	0.63	-0.04
LITERATURE HRS	1060	0.08	0.19	2.14	0.63	-0.05
MAG-NEWS HOURS	1060	0.21	0.22	2.14	0.63	0.04
NOTES HOURS	1060	0.11	0.28	2.14	0.63	0.04
ENGLISH PAGES	1060	41.40	66.36	2.14	0.63	0.07
MATH PAGES	1060	25.22	47.90	2.14	0.63	-0.01
NAT SCI PAGES	1060	33.90	61.23	2.14	0.63	-0.00
SOC SCI PAGES	1060	80.82	117.41	2.14	0.63	-0.01
HUMANITIES PGS	1060	17.26	45.75	2.14	0.63	-0.03
LITERATURE PGS	1060	34.17	97.10	2.14	0.63	-0.04

TABLE 19
PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE-POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

SECOND SEMESTER

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	417	243.34	210.98	0.23	0.04	0.06
TOTAL HOURS	417	1.55	0.92	0.23	0.04	0.02
REQUIRED PAGES	417	204.46	196.53	0.23	0.04	-0.00
REQUIRED HOURS	417	1.17	0.80	0.23	0.04	-0.07
UNREQD PAGES	417	39.71	91.25	0.23	0.04	0.15
UNREQD HOURS	417	0.39	0.47	0.23	0.04	0.14
ENGLISH HOURS	417	0.36	0.37	0.23	0.04	-0.18
MATH HOURS	417	0.21	0.36	0.23	0.04	0.08
NAT SCI HOURS	417	0.16	0.29	0.23	0.04	0.06
SOC SCI HOURS	417	0.39	0.45	0.23	0.04	-0.08
HUMANITIES HRS	417	0.07	0.17	0.23	0.04	-0.04
LITERATURE HRS	417	0.07	0.22	0.23	0.04	0.13
MAG-NEWS HOURS	417	0.19	0.23	0.23	0.04	0.16
NOTES HOURS	417	0.10	0.27	0.23	0.04	0.02
ENGLISH PAGES	417	77.99	106.64	0.23	0.04	-0.08
MATH PAGES	417	21.96	45.11	0.23	0.04	0.05
NAT SCI PAGES	417	24.30	47.91	0.23	0.04	0.09
SOC SCI PAGES	417	77.37	107.28	0.23	0.04	-0.01
HUMANITIES PGS	417	15.22	45.44	0.23	0.04	0.04
LITERATURE PGS	417	25.95	82.96	0.23	0.04	0.16

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	417	243.34	210.98	2.32	0.67	-0.02
TOTAL HOURS	417	1.55	0.92	2.32	0.67	0.09
REQUIRED PAGES	417	204.46	196.53	2.32	0.67	-0.04
REQUIRED HOURS	417	1.17	0.80	2.32	0.67	0.07
UNREQD PAGES	417	39.71	91.25	2.32	0.67	0.04
UNREQD HOURS	417	0.39	0.47	2.32	0.67	0.07
ENGLISH HOURS	417	0.36	0.37	2.32	0.67	0.00
MATH HOURS	417	0.21	0.36	2.32	0.67	-0.02
NAT SCI HOURS	417	0.16	0.29	2.32	0.67	0.11
SOC SCI HOURS	417	0.39	0.45	2.32	0.67	0.05
HUMANITIES HRS	417	0.07	0.17	2.32	0.67	0.05
LITERATURE HRS	417	0.07	0.22	2.32	0.67	0.00
MAG-NEWS HOURS	417	0.19	0.23	2.32	0.67	0.07
NOTES HOURS	417	0.10	0.27	2.32	0.67	0.04
ENGLISH PAGES	417	77.99	106.64	2.32	0.67	-0.05
MATH PAGES	417	21.96	45.11	2.32	0.67	-0.06
NAT SCI PAGES	417	24.30	47.91	2.32	0.67	0.12
SOC SCI PAGES	417	77.37	107.28	2.32	0.67	-0.01
HUMANITIES PGS	417	15.22	45.44	2.32	0.67	-0.01
LITERATURE PGS	417	25.95	82.96	2.32	0.67	-0.03

TABLE 20

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE-POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

ACADEMIC YEAR

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	1477	236.02	204.82	0.23	0.04	0.03
TOTAL HOURS	1477	1.50	0.94	0.23	0.04	-0.04
REQUIRED PAGES	1477	185.79	181.16	0.23	0.04	-0.00
REQUIRED HOURS	1477	1.06	0.76	0.23	0.04	-0.08
UNREQD PAGES	1477	53.25	111.49	0.23	0.04	0.07
UNREQD HOURS	1477	0.42	0.46	0.23	0.04	0.04
ENGLISH HOURS	1477	0.23	0.28	0.23	0.04	-0.08
MATH HOURS	1477	0.20	0.31	0.23	0.04	0.09
NAT SCI HOURS	1477	0.19	0.31	0.23	0.04	0.02
SOC SCI HOURS	1477	0.40	0.49	0.23	0.04	-0.15
HUMANITIES HRS	1477	0.09	0.20	0.23	0.04	-0.03
LITERATURE HRS	1477	0.07	0.20	0.23	0.04	0.10
MAG-NEWS HOURS	1477	0.20	0.23	0.23	0.04	0.12
NOTES HOURS	1477	0.11	0.28	0.23	0.04	-0.04
ENGLISH PAGES	1477	51.73	81.50	0.23	0.04	-0.02
MATH PAGES	1477	24.30	47.15	0.23	0.04	0.09
NAT SCI PAGES	1477	31.19	57.94	0.23	0.04	0.03
SOC SCI PAGES	1477	79.85	114.65	0.23	0.04	-0.09
HUMANITIES PGS	1477	16.69	45.67	0.23	0.04	0.02
LITERATURE PGS	1477	31.85	93.40	0.23	0.04	0.11

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	1477	236.02	204.82	2.19	0.65	-0.01
TOTAL HOURS	1477	1.50	0.94	2.19	0.65	0.02
REQUIRED PAGES	1477	185.79	181.16	2.19	0.65	0.01
REQUIRED HOURS	1477	1.06	0.76	2.19	0.65	0.04
UNREQD PAGES	1477	53.25	111.49	2.19	0.65	-0.03
UNREQD HOURS	1477	0.42	0.46	2.19	0.65	0.03
ENGLISH HOURS	1477	0.23	0.28	2.19	0.65	0.07
MATH HOURS	1477	0.20	0.31	2.19	0.65	-0.00
NAT SCI HOURS	1477	0.19	0.31	2.19	0.65	0.03
SOC SCI HOURS	1477	0.40	0.49	2.19	0.65	0.00
HUMANITIES HRS	1477	0.09	0.20	2.19	0.65	-0.03
LITERATURE HRS	1477	0.07	0.20	2.19	0.65	-0.04
MAG-NEWS HOURS	1477	0.20	0.23	2.19	0.65	0.05
NOTES HOURS	1477	0.11	0.28	2.19	0.65	0.04
ENGLISH PAGES	1477	51.73	81.50	2.19	0.65	0.04
MATH PAGES	1477	24.30	47.15	2.19	0.65	-0.02
NAT SCI PAGES	1477	31.19	57.94	2.19	0.65	0.02
SOC SCI PAGES	1477	79.85	114.65	2.19	0.65	-0.01
HUMANITIES PGS	1477	16.69	45.67	2.19	0.65	-0.03
LITERATURE PGS	1477	31.85	93.40	2.19	0.65	-0.04

TABLE 21

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE-POINT AVERAGES PAID FRESHMEN

SECOND SEMESTER

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	363	214.52	162.82	0.23	0.04	-0.05
TOTAL HOURS	363	1.54	0.86	0.23	0.04	-0.42
REQUIRED PAGES	363	176.28	131.01	0.23	0.04	-0.24
REQUIRED HOURS	363	1.10	0.80	0.23	0.04	-0.42
UNREQD PAGES	363	38.79	101.31	0.23	0.04	0.22
UNREQD HOURS	363	0.44	0.35	0.23	0.04	-0.07
ENGLISH HOURS	363	0.38	0.35	0.23	0.04	-0.45
MATH HOURS	363	0.20	0.29	0.23	0.04	-0.07
NAT SCI HOURS	363	0.12	0.24	0.23	0.04	-0.14
SOC SCI HOURS	363	0.38	0.56	0.23	0.04	-0.26
HUMANITIES HRS	363	0.05	0.13	0.23	0.04	0.03
LITERATURE HRS	363	0.07	0.17	0.23	0.04	0.25
MAG-NEWS HOURS	363	0.24	0.25	0.23	0.04	-0.10
NOTES HOURS	363	0.09	0.20	0.23	0.04	-0.12
ENGLISH PAGES	363	70.86	87.35	0.23	0.04	-0.23
MATH PAGES	363	22.89	36.14	0.23	0.04	-0.02
NAT SCI PAGES	363	17.75	35.16	0.23	0.04	-0.02
SOC SCI PAGES	363	61.06	90.40	0.23	0.04	-0.13
HUMANITIES PGS	363	9.86	29.15	0.23	0.04	-0.01
LITERATURE PGS	363	30.83	96.73	0.23	0.04	0.26

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	405	215.77	161.32	2.10	0.62	0.06
TOTAL HOURS	405	1.52	0.83	2.10	0.62	-0.01
REQUIRED PAGES	405	177.03	131.69	2.10	0.62	0.01
REQUIRED HOURS	405	1.07	0.78	2.10	0.62	-0.05
UNREQD PAGES	405	39.67	99.93	2.10	0.62	0.09
UNREQD HOURS	405	0.44	0.35	2.10	0.62	0.10
ENGLISH HOURS	405	0.36	0.34	2.10	0.62	-0.12
MATH HOURS	405	0.19	0.29	2.10	0.62	0.14
NAT SCI HOURS	405	0.14	0.27	2.10	0.62	0.08
SOC SCI HOURS	405	0.37	0.54	2.10	0.62	-0.11
HUMANITIES HRS	405	0.06	0.13	2.10	0.62	0.02
LITERATURE HRS	405	0.07	0.17	2.10	0.62	0.15
MAG-NEWS HOURS	405	0.24	0.24	2.10	0.62	-0.06
NOTES HOURS	405	0.09	0.21	2.10	0.62	0.08
ENGLISH PAGES	405	67.32	84.59	2.10	0.62	-0.04
MATH PAGES	405	20.78	34.81	2.10	0.62	0.17
NAT SCI PAGES	405	21.01	43.14	2.10	0.62	0.10
SOC SCI PAGES	405	62.04	90.38	2.10	0.62	-0.08
HUMANITIES PGS	405	12.24	37.38	2.10	0.62	-0.03
LITERATURE PGS	405	31.78	94.83	2.10	0.62	0.11

account for the varying sample size. The correlation coefficients are transformed to z scores by use of an appropriate table. Then the formula,

$$\bar{z} = \frac{\sum(n_i - 3)\, z_i}{\sum(n_i - 3)}$$

is used to average the z transformations and again using a table, the corresponding correlation coefficient is found.

This technique was used to compute 30 randomly chosen averages and in no case was the resulting correlation coefficient more than three-tenths of a point different from the coefficients reported in Tables 15, 16, and 17. Also, an inspection of the data indicated that there was no general increase or decrease in the amount of variation throughout a semester or year. The means and standard deviations did not seem to systematically rise or fall over a specified time period.

For the purposes of this study, then, the product-moment correlation coefficients so computed as reported in Tables 15, 16, and 17, are sufficient.

Since 3,080 product-moment correlation coefficients were computed for objective 5, it seems reasonable to draw conclusions from Tables 15-21.

In Tables 15 and 18, correlation coefficients showing the most relationship during the first semester were -.16 for Social Science hours versus ACT scores and -.18 for Social Science hours versus ACT scores respectively. The correlation coefficients in the same tables versus GPA scores were negligible. The other correlation coefficients in Tables 15, 17, 18, and 20 seem negligible. The correlation coefficients in Tables 16 and 19 also seem negligible although the numbers in the samples are relatively low. It seems that for reading Social Science material, there is a slight negative correlation between hours spent reading and aptitude as measured by the ACT examination. It seems that, supporting the previous evidence of Robinson (1961) and Ross and Klise (1927), at least for reading Social Science material, the student with the higher aptitude score spends less time. Since Social Science reading material is not highly technical, it might be inferred that the freshmen with higher aptitude scores are slightly more efficient at reading Social Science.

In Table 21, showing the correlation coefficients for the paid freshmen, the correlation coefficient for hours of reading Social Science material versus ACT scores was -.26, which agrees with the data for the other two groups. The correlation coefficients for pages and hours versus GPA scores generally were negligible which seems to indicate that, as with the other two groups, there is little, if any, relationship between aptitude and scholastic success and pages and hours of reading. However, several of the correlation coefficients for pages and hours versus ACT scores in Table 21 seem to indicate a negative relationship. Total hours versus ACT scores and required hours versus ACT scores both yield a correlation coefficient of -.42. Likewise, a correlation coefficient of -.45 exists between English hours and ACT scores. The several negative correlation coefficients in Table 21, under the ACT heading, seem to indicate that the students with higher aptitude scores do spend less time and read fewer pages than the students with lower aptitude scores. Since the Paid Freshmen group has consistently coincided generally with the other two groups, it is puzzling to find a disparity in objective 5. In objective 2, it seemed that the Paid Freshmen might have been more honest in their reporting. Also in objective 4 it was noted that the Paid Freshmen may have been more conscious of the time spent in leisure reading. It appears that for total hours, required hours, and English hours, the Paid Freshmen group members with the higher aptitude scores spent less time than did the freshmen with lower aptitude scores. This relationship does not seem to exist for the higher and lower grade point averages.

This puzzling situation may be a function of the nature of the second semester curriculum, however the other groups during the second semesters, although the sample was relatively small, did not yield the same slight negative relationships. Perhaps the Paid Freshmen, because they were paid, were over-zealous in their reporting hours and pages. Perhaps they reported hours and pages for some weeks, even though they had not read at all. It seems that this may be the case where the paid freshmen with lower aptitude scores are concerned.

In viewing the correlation coefficients in Appendix 11 and considering the total semester and academic year data in Tables 15-21, the investigator would conclude that there seems to be a negligible relationship between pages of reading and aptitude and scholastic achievement. It appears that a slight negative relationship might exist between hours of reading and aptitude, however this relationship does not seem to exist between hours of reading and scholastic achievement. Agreeing with Robinson (1961) and Ross and Klise (1927), and negating the claim of Stoke and Lehman (1930) that negative relationships between hours of reading and intelligence are due to over-estimates on the part of the less bright, the investigator would attribute the seemingly slight negative relationship between hours of reading and aptitude to the better work habits of the higher aptitude freshmen.

6. Do the mean time and mean number of pages of reading and required and unrequired reading done by college freshmen in each kind of material vary significantly from week to week throughout the academic year?

Tables 22, 23, and 24 show the Fisher ratios for the variance of time and number of pages for various categories and subject matter fields for the specific time periods.

The data for the first semester and the second semester in the case of Table 24, the Paid Freshmen, seem to be the most reliable data because of the small relative number in the sample for the second semester.

Considering the first semester data, Table 22 shows that only four areas do not vary significantly from week to week. The four areas are Unrequired pages, Literature hours (unrequired novels), Natural Science pages, and Natural Science hours. One would expect Unrequired pages

TABLE 22

ANALYSIS OF VARIANCE (F RATIOS) OF PAGES AND HOURS OF READING IN VARIOUS CATEGORIES FROM WEEK TO WEEK IN EACH SEMESTER AND THE ACADEMIC YEAR FOR THE TOTAL OHIO RESIDENT FRESHMEN GROUP

Category	First Semester F Ratios	Second Semester F Ratios	Academic Year F Ratios
Total Pages	3.178**	2.393**	2.819**
Total Hours	5.503**	2.180*	3.811**
Required Pages	3.203**	2.094*	3.030**
Required Hours	4.148**	2.112*	3.652**
Unrequired Pages	1.264	0.760*	1.204
Unrequired Hours	3.992**	1.747	2.847**
English Pages	2.980**	2.240**	6.773**
English Hours	4.622**	2.724**	10.615**
Math Pages	2.209**	1.271	1.673*
Math Hours	4.015**	0.736	2.293**
Natural Science Pages	1.628	2.017*	1.881**
Natural Science Hours	1.210	2.131*	1.736*
Social Science Pages	6.059**	3.184**	4.357**
Social Science Hours	5.713**	2.197**	3.784**
Humanities Pages	1.936*	0.837	1.359
Humanities Hours	1.833*	0.922	1.427
Literature Pages	1.897*	0.471	1.261
Literature Hours	1.196	0.560	0.902
Magazine Newspaper Hours	3.561**	2.180*	2.764**
Notes Hours	6.456**	3.423**	4.740**

Note: **= Significant at the .01 level
*= Significant at the .05 level
d.o.f. Between Weeks: First Sem., 13; Second Sem., 13; Year, 27
d.o.f. Within Weeks: First Sem., 403; Second Sem., 505; Year, 1894.

TABLE 23

ANALYSIS OF VARIANCE (F RATIOS) OF PAGES AND HOURS OF READING IN VARIOUS CATEGORIES FROM WEEK TO WEEK IN EACH SEMESTER AND THE ACADEMIC YEAR FOR THE OHIO RESIDENT FRESHMEN WITH ACT AND GPA SCORES

Category	First Semester F Ratios	Second Semester F Ratios	Academic Year F Ratios
Total Pages	2.334**	2.222**	2.252**
Total Hours	4.424**	2.267**	3.238**
Required Pages	2.121*	1.709*	2.153**
Required Hours	3.478**	2.023**	3.126**
Unrequired Pages	1.150	0.936	1.246
Unrequired Hours	3.950**	2.154**	3.066**
English Pages	2.859**	1.964**	5.048**
English Hours	4.322**	2.267**	8.888**
Math Pages	2.055*	1.356	1.674**
Math Hours	3.683**	1.083	2.305**
Natural Science Pages	2.313**	2.238**	2.292**
Natural Science Hours	1.375	2.363**	1.945**
Social Science Pages	3.087**	1.955**	2.391**
Social Science Hours	3.391**	1.376	2.300**
Humanities Pages	1.548	0.974	1.236
Humanities Hours	1.045	0.826	0.967
Literature Pages	1.743	0.264	1.090
Literature Hours	1.145	0.549	0.853
Magazine Newspaper Hours	2.761**	1.965**	2.372**
Notes Hours	5.776**	3.451**	4.426**

Note: **= Significant at the .01 level
*= Significant at the .05 level
d.o.f. Between Weeks: First Sem., 13; Second Sem., 13; Year, 27.
d.o.f. Within Weeks: First Sem., 1046, Second Sem., 403; Year, 1449.

TABLE 24

ANALYSIS OF VARIANCE (F RATIOS) OF PAGES AND HOURS OF READING IN VARIOUS CATEGORIES FROM WEEK TO WEEK IN THE SECOND SEMESTER FOR THE 29 PAID FRESHMEN

Category	F Ratio
Total Pages	1.869*
Total Hours	1.639
Required Pages	2.945**
Required Hours	0.916
Unrequired Pages	0.862
Unrequired Hours	1.485
English Pages	2.618**
English Hours	1.509
Math Pages	0.733
Math Hours	0.479
Natural Science Pages	0.851
Natural Science Hours	0.972
Social Science Pages	1.488
Social Science Hours	1.042
Humanities Pages	2.484**
Humanities Hours	1.282
Literature Pages	0.734
Literature Hours	0.852
Magazine Newspaper Hours	1.454
Notes Hours	2.276**

Note: **= Significant at the .01 level
*= Significant at the .05 level
d.o.f. Between Weeks: 13.
d.o.f. Within Weeks: 392.

and hours of Literature reading to remain rather constant throughout a semester. It seems that assignments and actual reading in Natural Science must be distributed rather equally throughout the semester. The significant difference of Literature pages from week to week might be accounted for by the variation of reading rates among different readers and among different difficulty of unrequired novel material.

In Table 23, six areas do not seem to vary significantly. The six areas are Unrequired pages, Natural Science hours, Humanities hours and pages,and Literature hours and pages. As seen in objective 4, the Freshmen with ACT and GPA scores spend about six per cent of their total time reading with Humanities materials. Humanities time and number of pages seems to be distributed fairly evenly through the weeks of the second semester.

In Tables 22 and 23 all areas not mentioned above do seem to vary significantly, either at the .01 level of confidence or at the .05 level of confidence, from week to week during the second semester. This significant variation is to be expected when one considers the different assignments students are expected to read for different courses and the effect examinations seem to have on freshmen reading. The significance of difference seems to infer that there is no "even flow" of reading in each area during a semester. The areas that were not significantly different seemed to be largely unrequired readings.

In Table 24, conversely, only five areas show significant differences from week to week in the second semester.

The Paid Freshmen group reported data for the second semester only, but the incidence of significance varies greatly for the second semester between the Paid Freshmen group and the other two groups. In objective 5, it was mentioned that the Paid Freshmen group may have reported data even when there was no real data to report. It seems that the evidence in Table 24 lends credence to the thought that the Paid Freshmen group possibly tended to desire to please the investigator by reporting reading in many areas each week. On the other hand, the few significant areas in Table 24 may be a function of the small number in the sample for the Paid Freshmen group.

The investigator prefers to conclude that there seems to be a significant difference from week to week in the first semester of hours and pages especially for the required reading areas. Of course the identification of the specific weeks of significance during the semester is left to further investigation.

These results seem to agree almost completely with the suspicion of Converse (1931, p. 262) that time in study might vary from week to week. Also one of the underlying motivations for this study was the consideration that the majority of the earlier studies were undertaken during only one week. Moore and Graham (1937) had also criticized the use of only one week.

7. What are the relationships between the number of pages read per hour in a semester, in each week of the year, in the different kinds of material and the two variables?

Appendix 12 shows the product-moment correlation coefficients for mean reading rates (pages read per hour) versus ACT and GPA scores. In Appendix 12, the means, standard deviations and correlation coefficients are reported by week for the 28 weeks of the academic year for the three groups of data. When stars appear in the tables, the stars indicate that insufficient data was available to compute a correlation coefficient.

For all three groups of freshmen there seems to be a fairly sporadic high positive relationship between the Literature rate and ACT and GPA scores in the first semester. For the two Ohio Resident groups this correlation coefficient seems to vary from .41 for Literature versus ACT in week 1, to .59 for Literature versus GPA in week 12. For the Paid Freshmen group, this same relationship is as strong as -.90. The coefficients for the Paid Freshmen group seem to be quite high and negative. For example, weeks 22, 23, 25, and 26 all contain negative correlation coefficients stronger than -.78. A negative correlation coefficient indicates that the freshman with a lower ACT or GPA score reads at a faster rate. Most of the materials involved in the strong relationships in the Paid Freshmen group seem to be Literature and Humanities. Since high positive relationships seem to exist consistently between Literature rate and ACT scores and GPA scores for the two Ohio Resident groups, it again seems appropriate to make the assumption that the Paid group may have been motivated by payment to report other than what they actually read.

In the Ohio Resdient group especially, and somewhat in the Ohio Resident with ACT and GPA scores, the fourteenth week (the week before examinations) contained a majority of negative correlation coefficients. It seems that the higher aptitude freshmen and freshmen with higher scholastic achievement slow down their reading rates just prior to examination. Study habits manuals (Pauk, 1962) exhort students to read textbooks slowly and carefully and to be flexible in their reading rates. It seems that during the week prior to final examinations in the first semester, more scholastically successful and bright freshmen do slow down their rates of reading with textbook material.

8. What are the differences between the mean number of pages read per hour in the different kinds of material in each week of the academic year?

Tables 25, 26, and 27 show the Fisher ratios for the variance among reading rates (pages read per hour) among six subjects (English, Mathematics, Natural Science, Social Science, Humanities, and Literature (unrequired novels)) for all the weeks of the academic year for the three groups of freshmen.

In the two Ohio Resident groups for the first semester, significant differences were shown for all weeks but weeks 6 and 14. It seems that near the middle of the semester (week 6) and at the end (week 14), the freshmen may have slowed down their reading in all six areas in preparation for examinations.

TABLE 25

ANALYSIS OF VARIANCE (F RATIOS) OF DIFFERENCES AMONG READING RATES IN 6 SUBJECTS; ENGLISH, MATH, NATURAL SCIENCE, SOCIAL SCIENCE, HUMANITIES, AND LITERATURE FOR 28 WEEKS OF THE ACADEMIC YEAR FOR TOTAL OHIO RESIDENT FRESHMEN

Week	Subject Variation d.o.f.	Random Variation d.o.f.	F Ratio
1	5	293	6.83**
2	5	411	11.83**
3	5	289	8.83**
4	5	277	8.77**
5	5	504	11.02**
6	5	211	1.63
7	5	206	10.35**
8	5	321	17.82**
9	5	250	8.71**
10	5	378	7.55**
11	5	332	20.29**
12	5	293	3.81**
13	5	255	18.11**
14	5	141	1.56
15	5	130	3.23**
16	5	221	9.33**
17	5	71	7.09**
18	5	89	6.47**
19	5	212	7.54**
20	5	57	2.83**
21	5	81	3.61**
22	5	73	4.94**
23	5	119	5.63**
24	5	86	1.57
25	5	95	9.24**
26	5	98	2.59**
27	5	42	3.69**
28	5	24	1.60

Note: **= Significant at .01 level
*= Significant at .05 level

TABLE 26

ANALYSIS OF VARIANCE (F RATIOS) OF DIFFERENCES AMONG READING RATES IN 6 SUBJECTS; ENGLISH, MATH, NATURAL SCIENCE, SOCIAL SCIENCE, HUMANITIES, AND LITERATURE FOR 28 WEEKS OF THE ACADEMIC YEAR FOR OHIO RESIDENT FRESHMEN WITH ACT AND GPA SCORES

Week	Subject Variation d.o.f.	Random Variation d.o.f.	F Ratio
1	5	230	3.51**
2	5	318	8.73**
3	5	310	8.65**
4	5	168	5.94**
5	5	401	9.62**
6	5	152	1.13
7	5	174	8.44**
8	5	232	9.11**
9	5	213	8.21**
10	5	288	7.28**
11	5	256	11.17**
12	5	192	8.47**
13	5	204	17.22**
14	5	102	0.62
15	5	108	3.05
16	5	176	8.66**
17	5	55	2.53**
18	5	71	5.80**
19	5	175	10.34**
20	5	43	1.97
21	5	62	3.27
22	5	57	3.36**
23	5	104	5.62**
24	5	68	1.20
25	5	63	12.86**
26	5	69	1.84
27	5	32	3.30
28	5	18	0.72

Note: **= Significant at .01 level
*= Significant at .05 level

TABLE 27

ANALYSIS OF VARIANCE (F RATIOS) OF DIFFERENCES AMONG READING RATES IN 6 SUBJECTS; ENGLISH, MATH, NATURAL SCIENCE, SOCIAL SCIENCE, HUMANITIES, AND LITERATURE FOR 14 WEEKS OF THE SECOND SEMESTER FOR THE PAID FRESHMEN

Week	Subject Variation d.o.f.	Random Variation d.o.f.	F Ratio
15	5	75	10.04**
16	5	79	14.05**
17	5	80	9.59**
18	5	75	5.94**
19	5	80	7.64**
20	5	78	2.21
21	5	69	2.68
22	5	78	14.48**
23	5	73	1.76
24	5	75	3.08*
25	5	71	6.31**
26	5	73	11.37**
27	5	71	8.83**
28	5	70	4.14**

Note: **= Significant at .01 level
*= Significant at .05 level

The analysis of variance for the remaining weeks during the first semester showed F ratios all significant at the .01 per cent level. This seems to indicate that freshmen do vary their reading rates in the six subject matter areas indicated. Study Habits manuals and efficient study courses (Pauk, 1962; Robinson, 1961) admonish students to adjust their rate of reading to the difficulty of the material. Tables 25, 26, and 27 seem to indicate that freshmen do this without the inspiration of such books and courses.

Table 27 indicates similar F ratios for the Paid Freshmen.

One can observe the actual mean rates of reading in the various areas by viewing Appendix 12. They seem to vary within the various weeks.

9. What are the differences between the percentages of time spent reading the various subject-matter fields?

Table 28 shows the Fisher ratios for the variance among percentages of total time spent reading various subjects for the three groups of freshmen.

Each F ratio for each group of freshmen is significant at the .01 level of confidence. The F ratio in each case is large, which might indicate that there is a strong significant difference among the various percentages. Table 14 seems to indicate that the various percentages do vary greatly.

These data appear to show, as might be assumed, that the time spent by freshmen surely does not even itself out among the various courses. This does not necessarily imply that the work load in any one area is any greater than another,

TABLE 28

ANALYSIS OF VARIANCE (F RATIOS) OF DIFFERENCES AMONG PERCENTAGES OF TIME SPENT READING VARIOUS SUBJECTS

Semester	Subject Variation d.o.f.	Random Variation d.o.f.	F Ratio
Total Ohio Resident Freshmen			
First	7	10848	86.77**
Second	7	4040	99.34**
Ohio Resident Freshmen with ACT and GPA Scores			
First	7	8272	61.18**
Second	7	3232	80.08**
Paid Freshmen			
Second	7	3240	76.79**

Note: **= Significant at .01 level
*= Significant at .05 level

but the time spent reading does vary among various subject matter areas.

10. Are there significant differences, in the time, in the rates of reading (pages per hour), and in the number of pages of reading in the different kinds of material in each week, and in the totals of each for each week, between the reading done by college freshmen in the first semester and in the second semester?

Data for the Paid Freshmen group is necessarily absent from this objective as they participated during the second semester only.

Tables 29 and 30 show t tests for significance of differences between the mean hours of reading between the first and second semesters for the two Ohio Resident Freshmen groups. Significant differences occurred at ten out of 14 pairs of weeks in English. There were no significant differences for mean hours of reading during the last two weeks of the Ohio Resident group nor for the second to the last week of the Ohio Resident with ACT and GPA scores group in the English category. As before mentioned, the English curriculum included composition during the first semester and literature during the second semester.

Tables 29 and 30 show seemingly inconsequential sporadic differences in some other weeks in various subjects.

Tables 31 and 32 show t tests for significance of differences between mean pages of reading in the two semesters for the two Ohio Resident groups. Significant differences appear in the same weeks for both groups in English with the

TABLE 29

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN MEAN HOURS OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR TOTAL OHIO RESIDENT FRESHMEN

Weeks	Eng.		Math		Nat.Sci.		Soc.Sci.		Hum.		Lit.		Mag.-News.		Notes	
	dof	t	dof	t	dof	t	dof	t	dof	t	dof	t	dof	t	dof	t
1-15	145	4.04**	145	1.18	145	3.53**	145	0.52	145	0.72	145	0.05	145	1.44	145	3.60**
2-16	195	25.65**	195	1.61	195	0.03	195	1.85	195	0.24	195	1.56	195	3.36**	195	2.25*
3-17	118	39.72**	118	0.10	118	4.87**	118	2.20*	118	0.25	118	0.11	118	0.04	118	0.32
4-18	118	27.76**	118	0.01	118	0.08	118	0.06	118	0.48	118	2.56*	118	1.36	118	1.55
5-19	243	37.34**	243	4.17**	243	2.98**	243	0.03	243	1.50	243	0.14	243	1.03	243	0.02
6-20	85	15.44**	85	0.02	85	0.14	85	1.52	85	3.65**	85	0.38	85	4.78**	85	0.01
7-21	93	2.31*	93	1.46	93	0.42	93	0.16	93	0.04	93	1.59	93	0.10	93	0.03
8-22	125	3.11**	125	1.53	125	4.62**	125	2.77**	125	0.00	125	0.16	125	0.09	125	0.28
9-23	127	1.80	127	1.53	127	0.37	127	0.30	127	0.06	127	1.76	127	0.18	127	0.91
10-24	179	6.69**	179	0.82	179	3.55**	179	0.14	179	0.97	179	1.55	179	0.39	179	0.16
11-25	142	18.46**	142	2.75**	142	1.90	142	0.02	142	0.03	142	0.52	142	3.09**	142	0.74
12-26	145	11.06**	145	0.24	145	0.15	145	0.82	145	0.30	145	0.23	145	0.36	145	1.00
13-27	115	1.13	115	0.62	115	2.99**	115	2.84**	115	0.11	115	1.38	115	2.67**	115	0.54
14-28	63	2.07*	63	1.63	63	1.61	63	0.04	63	0.17	63	0.03	63	0.78	63	0.03

Note: **= Significant at .01 level
*= Significant at .05 level

TABLE 30

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN MEAN HOURS OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR OHIO RESIDENT FRESHMEN WITH ACT AND GPA SCORES

Weeks	Eng.		Math		Nat.Sci.		Soc.Sci.		Hum.		Lit.		Mag.-News.		Notes	
	dof	t	dof	t	dof	t	dof	t	dof	t	dof	t	dof	t	dof	t
1-15	112	5.44**	112	1.33	112	4.06**	112	0.20	112	0.96	112	0.50	112	1.58	112	2.80**
2-16	153	21.88**	153	0.31	153	0.00	153	1.41	153	0.01	153	2.22*	153	2.73**	153	0.90
3-17	92	15.61**	92	0.18	92	5.24**	92	1.12	92	0.03	92	1.01	92	0.01	92	0.04
4-18	77	21.38**	77	1.12	77	0.01	77	0.04	77	0.07	77	1.00	77	0.31	77	1.18
5-19	195	33.58**	195	2.86**	195	2.37*	195	0.06	195	1.75	195	0.02	195	0.09	195	0.15
6-20	64	9.74**	64	0.18	64	0.05	64	1.61	64	1.66	64	0.76	64	5.24**	64	0.02
7-21	75	1.43	75	0.07	75	1.15	75	0.02	75	0.57	75	0.61	75	0.35	75	0.03
8-22	93	6.80**	93	2.29*	93	3.96**	93	2.65*	93	0.76	93	0.00	93	0.61	93	0.39
9-23	109	1.18	109	1.37	109	0.22	109	0.65	109	0.21	109	1.11	109	0.02	109	0.21
10-24	135	2.68**	135	1.96*	135	4.31**	135	0.01	135	1.67	135	2.68**	135	0.01	135	0.01
11-25	108	18.04**	108	1.92	108	1.91	108	0.03	108	0.01	108	0.59	108	3.96**	108	1.52
12-26	99	19.36**	99	0.29	99	0.08	99	0.66	99	0.04	99	0.01	99	1.23	99	0.08
13-27	92	0.63	92	0.35	92	2.12*	92	1.89	92	0.19	92	1.37	92	1.70	92	0.22
14-28	45	1.20	45	2.89**	45	1.39	45	0.00	45	0.01	45	0.00	45	0.80	45	0.06

Note: **= Significant at .01 level
*= Significant at .o5 level

TABLE 31

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN MEAN PAGES OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR TOTAL OHIO RESIDENT FRESHMEN

Weeks	English		Mathematics		Natural Science		Social Science		Humanities		Literature	
	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t
1-15	145	1.69	145	0.00	145	5.35**	145	1.76	145	0.24	145	1.28
2-16	195	5.07**	195	0.05	195	0.17	195	2.09*	195	0.40	195	3.33**
3-17	118	16.46**	118	0.07	118	5.14**	118	1.01	118	0.01	118	0.06
4-18	118	16.97**	118	0.02	118	0.63	118	1.25	118	0.00	118	2.30*
5-19	243	23.12**	243	2.09*	243	0.07	243	1.09	243	1.64	243	0.00
6-20	85	14.02**	85	0.43	85	1.14	85	0.97	85	4.28**	85	0.02
7-21	93	3.99**	93	3.82**	93	0.14	93	0.26	93	0.27	93	1.37
8-22	125	1.17	125	2.71**	125	5.50**	125	1.67	125	1.93	125	0.05
9-23	127	1.79	127	6.44**	127	0.10	127	1.53	127	0.25	127	0.43
10-24	179	1.56	179	0.21	179	2.46*	179	0.27	179	0.02	179	0.68
11-25	142	10.70**	142	0.17	142	1.90	142	0.02	142	0.52	142	0.81
12-26	145	16.09**	145	0.82	145	0.00	145	0.72	145	0.12	145	0.02
13-27	115	0.10	115	0.13	115	3.64**	115	2.09*	115	0.00	115	0.74
14-28	63	0.16	63	0.27	63	0.75	63	0.77	63	0.00	63	0.00

Note: **= Significant at .01 level
*= Significant at .05 level

TABLE 32

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN MEAN PAGES OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR OHIO RESIDENT FRESHMEN WITH ACT AND GPA SCORES

Week	English		Mathematics		Natural Science		Social Science		Humanities		Literature	
	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t
1-15	112	1.59	112	0.11	112	5.47**	112	1.21	112	0.16	112	1.35
2-16	153	2.87**	153	0.64	153	0.40	153	1.41	153	0.73	153	4.27**
3-17	92	5.70**	92	0.05	92	4.21**	92	0.45	92	0.09	92	1.37
4-18	77	14.04**	77	0.25	77	0.55	77	0.34	77	0.03	77	0.84
5-19	195	18.88**	195	0.30	195	0.02	195	0.29	195	1.85	195	0.03
6-20	64	8.19**	64	0.39	64	0.50	64	0.39	64	2.89**	64	0.12
7-21	75	1.17	75	0.42	75	0.01	75	0.19	75	1.77	75	0.54
8-22	93	1.22	93	2.55*	93	3.52**	93	1.48	93	0.01	93	0.01
9-23	109	1.66	109	5.52**	109	0.21	109	2.09*	109	0.32	109	0.44
10-24	135	0.44	135	0.02	135	3.27**	135	0.08	135	0.01	135	1.23
11-25	108	8.73**	108	0.52	108	1.65	108	0.18	108	0.81	108	0.66
12-26	99	16.31**	99	0.60	99	0.04	99	0.24	99	0.19	99	0.04
13-27	92	0.07	92	0.02	92	3.05**	92	1.22	92	0.10	92	0.74
14-28	45	0.03	45	1.93	45	0.60	45	0.38	45	0.18	45	0.13

Note: **= Significant at .01 level
*= Significant at .05 level

exception of significant differences occurring in weeks 7-21 for the Ohio Resident Freshmen group and not in that pair for the other group. Significant differences are seemingly sporadic and inconsequential in the other subject matter areas.

Tables 33 and 34, showing t tests for significance of differences between mean reading rates in the two semesters, reveal sporadic seemingly inconsequential significant differences.

Tables 35 and 36, showing t tests for significance of differences between mean totals of hours, pages, and rate in the two semesters,also reveal sporadic seemingly inconsequential significant differences.

Because of the relative paucity of data available for the second semester, one is unable to draw valid conclusions from the results of objective 10.

11. Are there differences, by inspection, between the reading of freshmen during the second semester and a group of freshmen paid to keep reading charts each week of the second semester?

In objective 2, it seemed that the Paid Freshmen group was more honest in reporting their reading, but in objectives 5, 6, and 7 data for the Paid Freshmen group seem to indicate that the freshmen did not report valid data. In comparing the Paid Freshmen with the other groups during the second semester, it seems that there are differences in objectives 2, 5, 6, and 7, but in the other objectives where the Paid

TABLE 33

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN MEAN RATES OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR TOTAL OHIO RESIDENT FRESHMEN

Weeks	English		Mathematics		Natural Science		Social Science		Humanities		Literature	
	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t
1-15	116	0.61	79	1.46	65	0.05	90	2.16*	40	1.15	33	0.46
2-16	175	2.75**	104	3.64**	95	1.21	140	0.02	58	0.29	60	1.09
3-17	90	8.01**	58	0.18	51	2.44*	80	1.96	32	0.02	36	0.13
4-18	93	0.78	55	0.66	61	2.37*	70	1.29	46	0.26	41	0.23
5-19	188	0.04	115	1.04	110	1.48	175	4.29**	73	0.42	55	0.61
6-20	66	2.00	51	0.36	50	0.97	49	0.15	30	0.43	22	0.00
7-21	72	0.26	49	0.08	51	4.62**	66	0.00	30	0.15	19	0.00
8-22	102	0.29	74	1.79	65	1.56	78	1.42	41	3.88**	34	0.08
9-23	83	0.14	81	0.03	61	0.75	84	3.58**	31	0.59	29	0.08
10-24	109	3.05**	100	3.00**	70	0.14	103	2.99**	47	1.34	35	0.06
11-25	102	0.63	86	4.49**	84	0.41	82	1.35	39	0.48	34	0.12
12-26	80	7.01**	73	0.56	63	2.47*	99	2.03	37	0.18	39	0.63
13-27	73	0.45	49	1.13	49	1.02	76	0.01	28	0.00	22	0.18
14-28	34	0.39	23	0.19	24	0.06	48	0.99	22	0.00	14	0.11

Note: **= Significant at .01 level
*= Significant at .05 level

TABLE 34

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN MEAN RATES OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR OHIO RESIDENT FRESHMEN WITH ACT AND GPA SCORES

Weeks	English		Mathematics		Natural Science		Social Science		Humanities		Literature	
	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t	d.o.f.	t
1-15	93	2.02*	61	2.04*	48	0.19	75	2.35*	33	1.36	28	0.14
2-16	137	2.83**	83	4.39**	69	1.26	108	0.03	47	1.63	50	2.00
3-17	73	6.42**	47	0.07	37	0.31	64	1.30	28	0.00	24	0.85
4-18	65	0.07	35	0.00	41	0.97	44	0.28	32	0.15	22	0.09
5-19	154	0.75	92	2.39*	94	1.41	135	1.92	56	0.26	45	0.44
6-20	51	1.39	38	0.49	33	1.15	37	0.38	18	0.25	18	0.01
7-21	59	0.01	35	0.20	46	2.40*	55	0.00	25	0.14	16	0.00
8-22	77	0.21	54	1.24	43	0.15	62	1.34	28	4.80**	25	0.08
9-23	70	0.02	74	0.12	56	0.17	70	5.13**	26	0.38	21	0.91
10-24	83	1.70	76	2.59*	52	0.00	80	2.08*	40	3.68**	25	0.18
11-25	77	0.35	66	8.03**	62	0.35	62	3.23**	28	0.56	24	0.07
12-26	53	4.93**	49	0.38	48	1.54	64	1.73	23	8.39**	24	0.51
13-27	57	0.68	35	1.55	42	1.29	63	0.11	19	0.22	20	0.11
14-28	25	0.07	20	0.16	19	0.11	32	0.37	16	0.02	8	0.24

Note: **= Significant at .01 level
*= Significant at .05 level

TABLE 35

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN THE MEANS OF THE TOTAL HOURS, PAGES, AND RATES OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR TOTAL OHIO RESIDENT FRESHMEN

Weeks	Total Hours		Total Pages		Total Rate	
	d.o.f.	t	d.o.f.	t	d.o.f.	t
1-15	145	0.77	145	0.03	130	1.42
2-16	195	0.34	195	0.65	189	2.21*
3-17	118	4.59**	118	3.09**	110	0.01
4-18	118	5.78**	118	0.03	117	1.07
5-19	243	7.48**	243	3.04**	236	0.38
6-20	85	0.17	85	1.13	85	1.79
7-21	93	0.07	93	2.15*	93	0.79
8-22	125	1.12	125	0.72	125	2.99**
9-23	127	0.07	127	0.92	126	1.74
10-24	179	0.75	179	0.15	172	0.38
11-25	142	0.78	142	0.01	140	1.22
12-26	145	0.87	145	1.40	140	2.55*
13-27	115	1.58	115	2.99**	111	0.18
14-28	63	0.03	63	0.43	61	1.34

Note: **= Significant at .01 level
*= Significant at .05 level

TABLE 35

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN THE MEANS OF THE TOTAL HOURS, PAGES, AND RATES OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR TOTAL OHIO RESIDENT FRESHMEN

Weeks	Total Hours		Total Pages		Total Rate	
	d.o.f.	t	d.o.f.	t	d.o.f.	t
1-15	145	0.77	145	0.03	130	1.42
2-16	195	0.34	195	0.65	189	2.21*
3-17	118	4.59**	118	3.09**	110	0.01
4-18	118	5.78**	118	0.03	117	1.07
5-19	243	7.48**	243	3.04**	236	0.38
6-20	85	0.17	85	1.13	85	1.79
7-21	93	0.07	93	2.15*	93	0.79
8-22	125	1.12	125	0.72	125	2.99**
9-23	127	0.07	127	0.92	126	1.74
10-24	179	0.75	179	0.15	172	0.38
11-25	142	0.78	142	0.01	140	1.22
12-26	145	0.87	145	1.40	140	2.55*
13-27	115	1.58	115	2.99**	111	0.18
14-28	63	0.03	63	0.43	61	1.34

Note: **= Significant at .01 level
*= Significant at .05 level

TABLE 36

t TESTS FOR SIGNIFICANCE OF DIFFERENCES BETWEEN THE MEANS OF THE TOTAL HOURS, PAGES, AND RATES OF READING IN VARIOUS SUBJECT AREAS IN CORRESPONDING WEEKS OF THE FIRST AND SECOND SEMESTERS FOR OHIO RESIDENT FRESHMEN WITH ACT AND GPA SCORES

Week	Total Hours		Total Pages		Total Rate	
	d.o.f.	t	d.o.f.	t	d.o.f.	t
1	112	0.82	112	0.03	103	1.40
2	153	0.10	153	1.60	148	3.62**
3	92	0.63	92	0.11	88	0.00
4	77	3.42**	77	0.23	76	0.02
5	195	7.46**	195	1.87	189	0.73
6	64	0.46	64	0.60	64	0.87
7	75	0.08	75	0.14	75	0.24
8	93	1.55	93	0.66	93	4.13**
9	109	0.15	109	1.17	108	1.31
10	135	0.07	135	0.07	132	0.11
11	108	0.01	108	0.16	107	1.08
12	99	0.05	99	2.55*	96	1.75
13	92	1.34	92	3.54**	90	1.53
14	45	0.09	45	0.75	43	1.63

Note: **= Significant at .01 level
*= Significant at .05 level

Freshmen data appear (objective 1, 3, 4, 8, and 9), there do not seem to be any readily apparent differences.

Because there are differences between the Paid Freshmen group, seemingly prejudiced because of the payment of money, the data for the Paid Freshmen group should be interpreted, especially in objectives 2, 5, 6, and 7, with care.

Chapter VI

Summary

Background

The primary purpose of this study was to determine the number of pages and kind of reading done by college freshmen and the number of hours devoted to it during an academic year and to relate these facotrs to the students' aptitude, as measured by the American College Testing Program Battery, and scholastic achievement, as indicated by semester grade-point averages.

Previous studies of this nature had been done, but the majority of the studies had been based on only one week of reading and had been concerned only with time spent reading. Studies of the scope of the present study had not been done and therefore answers to the several objectives posed were not known.

Objectives

The investigation answered the following questions: Note: "The two variables" refers to aptitude, as measured by the American College Testing Program Battery, and scholastic achievement, as indicated by semester grade-point averages.

1. How much time (in mean hours per week, mean hours per semester, and mean hours per academic year) do college freshmen devote to reading? Means, standard deviations,

and the 99th, 90th, 75th, 50th, 25th, 10th, and 1st percentiles for the distributions were reported.

2. What is the number of pages of reading (in mean pages per week, mean pages per semester, and mean pages per academic year) done by college freshmen? Means, standard deviations, and the 99th, 90th, 75th, 50th, 25th, 10th, and 1st percentiles were reported.

3. What are the mean number of pages and the mean number of hours freshmen read in different kinds of materials, required and unrequired, in each week, in each semester, and in an academic year? The kinds of materials are divided into the following categories: English, Mathematics, Natural Science, Social Science, Humanities, Literature, Total Required and Total Unrequired. Magazines and Newspapers, and Lecture Notes are included in the hours data. N and the mean were reported for each week.

4. How does the average college freshman distribute his time in reading among the various kinds of material in the first semester, in the second semester, and in the academic year? Percentages were reported for each kind of material.

5. What are the relationships between the total time spent reading, the required time and number of pages, the unrequired time and number of pages, and the time and number of pages of reading in the different kinds of reading material read by college freshmen during each week in the academic year and the two variables? N, the mean, and the standard deviations for the distributions of each variable

were reported along with the product-moment correlation coefficients.

6. Do the mean time and the mean number of pages of reading and required and unrequired reading done by college freshmen in each kind of material vary significantly from week to week throughout the academic year? F ratios for significance of differences among means were reported.

7. What are the relationships between the number of pages read per hour in a semester, in each week of the year, in the different kinds of material and the two variables? N, the mean, and the standard deviations for the distributions of each variable were reported along with the product-moment correlation coefficients.

8. What are the differences between the mean number of pages read per hour in the different kinds of material in each week of the academic year? F ratios for significance of differences among means were reported.

9. What are the differences between the percentages of time spent reading the various subject-matter fields? F ratios for significance of differences among means were reported.

10. Are there significant differences, in the time, in the rates of reading (in pages per hour), and in the number of pages of reading in the different kinds of material in each week, and in the totals of each for each week, between the reading done by college freshmen in the first semester and in the second semester? The results

of t tests of significance of differences between means were reported.

11. Are there differences, by inspection, between the reading of freshmen during the second semester and a group of freshmen paid to keep reading charts each week of the second semester?

Procedure

Data were collected on time chart forms. Students were instructed to keep a record of all the reading they did for a week, including the titles, authors, number of pages, and number of hours they read in one week.

The charts were kept in detail by different randomly chosen dormitory groups of Ohio University freshmen each week for 14 weeks, sampling the entire freshmen men's dormitory population in the first semester, 1965-1966. The procedure was repeated during the second semester with the same groups of freshmen sampled during the same corresponding weeks. Another group of 29 freshmen was chosen randomly from the same population and paid to keep reading charts every week for the second semester.

Freshmen students were instructed in keeping the charts at the beginning of each week at a hall meeting. All received exactly the same instructions.

The final sample of freshmen who successfully completed reading charts included three groups: 1. Ohio Resident Freshmen, N=1400 first semester, 520 second semester, total= 1,920. 2. Ohio Resident Freshmen for Whom ACT and GPA Scores Were Available, N=1060 first semester, 417 second semester, total sub-sample = 1477. 3. Paid Freshmen, N=29. The mean grade-point averages for the above groups were 2.2, 2.2, and 2.1 respectively. The mean ACT composite scores were 23.0, 23.0, and 23.2 respectively.

Results and Conclusions

Objective 1

The mean hours spent reading by freshmen seemed to be about 14 hours per week. Compared to results of earlier studies, this mean was very low. The weekly means ranged, however, from 11 hours per week to 21 hours per week, so earlier studies, based for the most part on one week, seemed to indicate a spuriously high number of hours of reading per week. A mean of 14 hours per week of reading seemed even lower if one considers that all of a freshman's reading was included, required and unrequired. The range of hours spent reading in one week seemed to be generally between no hours and 40 hours. The results indicated that freshmen seemed to spend more time reading immediately prior to examinations. The hours of reading did not seem to be affected by the campus social and vacation calendar.

Objective 2

The number of pages of reading seemed to follow generally the same pattern as did the number of hours of reading.

The data seemed to indicate that the seemingly more industrious students, those with ACT and GPA scores available, reported the highest number of pages read. This seemed to refute claims that less bright students grossly over-estimate in reported academic activities.

Objective 3

The report of the mean number of pages and hours in various subject matter areas in each week seemed to indicate that impending examinations encourage relatively more pages of reading and more hours spent reading. Freshmen seemed to read more pages in Social Science and English than in other subject areas. The number of hours devoted to newspapers, magazines, and unrequired novels exceeded three hours per week in each week of the academic year. This seemed to indicate that freshmen do spend time reading material other than what is required of them.

Objective 4

The percentages of time spent reading various subject matter material seemed to be irregularly distributed. Social Science and English (during the second semester when literature was taught) received the highest percentage of time from freshmen.

Objective 5

A slight negative correlation was evidenced between hours spent reading Social Science material and aptitude as measured by the ACT battery. This seemed to support the contention that brighter freshmen spend less time and are more efficient readers than are less bright freshmen. Generally, however, the relationships between hours and pages of study and aptitude and scholastic achievement seemed to be negligible.

Objective 6

With the exception of Natural Science and Unrequired material, each subject matter area seemed to vary significantly from week to week in time spent reading and in mean pages read. This significant difference was expected if one considered the different assignments students are expected to read for different courses. The significant variation seemed to infer that there is no "even flow" of reading in each subject matter area from week to week throughout an academic year. The identification of specific weeks where significant differences appear was left to further investigation. These results confirmed the suspicion that time in study varies from week to week in an academic year.

Objective 7

There seemed to be a sporadic high positive relationship between Literature rate (pages per hour) and aptitude and scholastic achievement. It seemed that the higher aptitude and higher scholastic achievers of the freshmen slowed down their reading rates just prior to examinations, since the product-moment correlation coefficients for these periods seemed to be mostly negative.

Objective 8

With the exception of the weeks just prior to examinations, the reading rates among different kinds of subject matter material varied significantly at the .01 per cent level in each week of the academic year. This seemed to indicate that freshmen do vary their reading rates in at least six subject matter areas. This seemed to infer that freshmen may not require the admonition to be "flexible" with their reading rates.

Objective 9

Significant differences at the .01 per cent level were indicated by the data among the percentages of time spent reading various subject matter fields. These data appeared to show, as might be assumed, that the time spent by freshmen did not even itself out among the various courses. This did not necessarily imply that the work load in any one area is any greater than another, but the time spent reading did vary among various subject matter areas.

Objective 10

Significant differences were found in some areas between the weeks of the first semester and the appropriate weeks of the second semester, but because of the relative paucity of data available for the second semester, one was unable to draw valid conclusions from the results.

Objective 11

Differences were found, on inspection of the data, between the Paid Freshmen group and the two Ohio Resident group samples, especially in objectives 2, 5, 6, and 7. Because there were differences between the groups, seemingly because the Paid Freshmen were prejudiced because of the payment of money, the data for the Paid Freshmen group should be interpreted with care.

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Appendix 1

The Reading Clinic
Graduate School of Education
University of Pennsylvania

The Reading Clinic is conducting a study to determine the amount of time students spend in reading textbooks and supplementary materials for each course.

.Will you please keep a record on this form of the reading you do for one week starting Monday. Please do not try to rely on memory. Keep the chart on your desk or in your notebook and make an entry as you finish each reading session. Please include each piece of reading material you read for each course. Note with an asterisk materials which are required reading.

NAME____________________________________BOX NO.__________
UNDERGRADUATE SCHOOL_______________________

	Title of Book	Pages	to	Time Reading (Hrs.)	Title of Book	Pages	to	Time Reading (Hrs.)
Monday								
Tuesday								
Wednesday								

	Title of Book	Pages to		Time Reading (Hrs.)	Title of Book	Pages to		Time Reading (Hrs.)
Thursday								
Friday								
Saturday								
Sunday								

Appendix 2

A STUDY OF FRESHMEN READING
PRELIMINARY PILOT STUDY

The over-all purpose of the study was to determine the amount of time college freshmen devote to reading various materials and to correlate these data with aptitude scores and grade-point averages.

PURPOSE:

The specific purposes of the pilot study were:

1. to try out a reading chart form (Appendix 1),
2. to test the willingness of the freshmen to keep a record of their reading,
3. to get an approximation of the time freshmen spend reading in a week and their rate of reading different materials,
4. to determine the various types of reading freshmen do.

SAMPLE:

Each of the 50 men's freshmen dormitory sections at the University of Pennsylvania was assigned a number from one to 50. Every fifth number was selected from a table of random numbers and the first two numbers falling between numbers one and 50 were chosen. The corresponding dormitory sections were chosen. The dormitory office placed freshmen equally among the sections in terms of Scholastic Aptitude Text scores, geographic location of home, prep school or high school attended and other factors. It was believed then, that the selection of the sample was truly random and representative of the freshmen class. Thirty-eight freshmen from the dormitory sections were given the chart. Twenty-seven freshmen or 71 per cent of the group completed the chart and are included in this study. The mean Verbal Scholastic Aptitude Test (VSAT) score (taken in May 1963) for the group was 549. The average VSAT score for the freshmen at the University of Pennsylvania in 1964 was 588.

PROCEDURE:

The reading chart was presented to the freshmen at a dormitory meeting at a Sunday night meeting prior to the week they were to keep the record of reading (Sunday, November 15, and Sunday, December 7, 1964). The weeks chosen were the week before Thanksgiving vacation and the week before final exams. An approximation of the following speech was given to the freshmen at that time:

> My name is Dave Yarington. I'm on a teaching fellowship in the Reading Clinic in the School of Education. We're doing a study to determine the amount of time students spend reading and the type of reading done by the students. In order to gather this information, we have randomly chosen sections of dormitories. We want to record the reading of students for a number of weeks. This week this section has been chosen.
>
> What we'd like to have each one of you do is to keep a record of all the reading you do for one full week. Here is the form we'd like you to use. I'll explain it to you. (Explanation)
>
> The results of a survey such as this should be very interesting. Something like this has never been done before. It should be interesting to you to find out exactly how much reading you do a week.
>
> When I compile the results, I will send a copy to each one of you. These results should be of real interest to the University community, to general researchers as well as to you.
>
> It is very important to write down each piece of reading you do, the pages and the time spent reading.
>
> Any questions? We'll start tonight at twelve and I'll pick them up next Monday night.

As mentioned before, a 71 per cent return of the charts was realized. Some reasons for not returning the charts were: (1) "I completely forgot." (2) "I lost it." (3) "I was out of town for three days."

RESULTS:

1. Reading Chart

The reading chart was adequate. Some revisions seemed appropriate. It appeared that columns should be added for checking whether material was required or unrequired; freshmen were lax in using asterisks. It appeared that a column should be added for the author's name, for the purpose of checking the kind of material. Since the freshmen only filled out one half of each sheet, only one column was needed on each page for titles of books. It seemed that the instructions should include examples of kinds of materials since questions were asked on this point.

2. Willingness of Freshmen

The freshmen were cooperative and willing to take part in the study. One section expressed a desire to do it again.

3. Time and Amount of Reading Done

Time Reading-	Magazines	1.00	hours per week average
	Newspapers	1.40	hours per week average
	Textbooks	11.87	hours per week average
	Literature	4.42	hours per week average
	Total	18.75	hours per week average

Amount of Reading per hour

Textbooks	21.35	pages per week average
Literature	38.95	pages per week average
Total	60.30	pages per week average

A total of 4,770 pages of textbook material and a total of 3,963 pages of literature material were read. This was 8,733 pages a week or an average of 323 pages a week per student.

4. Type of Reading

The type of reading done by the sample fell into four distinct categories: (1) Magazines, (2) Newspapers, (3) Textbooks, (4) Literature.

Notebooks were mentioned often, but since there was such a variety of notes and since the students were not specifically asked to include notes, they were not included in the tabulations.

CONCLUSION:

It seemed appropriate to carry out the study, with the indicated revisions, on a larger scale.

Appendix 3

REPORT TO PARTICIPANTS

Thank you for participating in my study of freshmen reading. I have used the data received as a pilot study and am in the process of designing a much larger study involving a total freshmen class. I plan to collect data weekly for one year using different groups each week.

Here is the data from the pilot study, the one to which you contributed.

Number of students-27
Type of reading-The type of reading fell into five catagories: Magazines, Newspapers, Textbooks, Literature, and Notes. I will include directions to add notes in the larger study.

Time reading-		
	Magazines	1.06 hours per week average
	Newspapers	1.40 hours per week average
	Textbooks	11.87 hours per week average
	Literature	4.42 hours per week average
	Total	18.75 hours per week average

Amount of reading per hour		
	Textbooks	21.34 pages per hour
	Literature	38.95 pages per hour

A total of 4,770 pages of textbook material and a total of 3,963 pages of literature material were read. This is 8,733 pages per week or an average of 328 pages per week per student.

Thank you again and the best of luck to you in your studies.

Sincerely,

David J. Yarington
Reading Clinic
University of Pennsylvania

Appendix 4

The Reading Laboratory
College of Education
Ohio University

The Reading Laboratory is conducting a study to determine the amount of time students spend in reading all materials (textbooks, supplementary materials, notes, and leisure reading).

Will you please keep a record on this form of the reading you do for one week starting tomorrow. Please do not try to rely on memory. Keep the chart on your desk or in your notebook and make an entry as you finish each reading session. Please include each piece of reading material you read and the author where appropriate. Check ( ) whether the material is required or unrequired. Write the total pages you read and the time in hours.

NAME____________________________________ DORM______________________

	Title of Book	Author	Required	Un-Required	Pages	Time Reading (hours)
Monday						
Tuesday						
Wednesday						

	Title of Book	Author	Required	Un-Required	Pages	Time Reading (Hours)
Thursday						
Friday						
Saturday						
Sunday						

Appendix 5

DORMITORY SCHEDULE FOR READING STUDY

First Semester

Week	Dormitory Number	Dates
1	1	September 16-September 22, 1965
2	2	September 23-September 29, 1965
3	3	September 30-October 6, 1965
4	4	October 7-October 13, 1965
5	5	October 14-October 20, 1965
6	6	October 21-October 27, 1965
7	7	October 28-November 3, 1965
8	8	November 4-November 10, 1965
9	9	November 11-November 17, 1965
10	10	November 18-November 24, 1965
11	11	December 2-December 8, 1965
12	12	December 9-December 15, 1965
13	13	January 6-January 12, 1966
14	14	January 13-January 19, 1966

Second Semester

Week	Dormitory Number	Dates
15	1	February 3-February 9, 1966
16	2	February 10-February 16, 1966
17	3	February 17-February 23, 1966
18	4	February 23-March 2, 1966
19	5	March 3-March 9, 1966
20	6	March 10-March 16, 1966
21	7	March 17-March 23, 1966
22	8	April 7-April 13, 1966
23	9	April 14-April 20, 1966
24	10	April 21-April 27, 1966
25	11	April 28-May 4, 1966
26	12	May 5-May 11, 1966
27	13	May 12-May 18, 1966
28	14	May 19-May 25, 1966

Appendix 6

The Reading Laboratory
College of Education
Ohio University

Counselor: Please read the following statement to the Freshmen on your hall. Then pass out the chart forms and answer any questions. The charts will be returned to you in seven days. Please take them to the resident director when you are sure you have all of them.

The reading Laboratory is conducting a study to determine the amount of time freshmen spend in reading and the type of reading freshmen do.

All the freshmen men at Ohio University are particitating. Your dormitory has been ramdomly selected to participate this week.

We would like each one of you to keep a record of all the reading you do, starting tomorrow morning and continuing for seven days. This includes newspapers, magazines, notes and textbooks...all required and unrequired reading of any kind of material.

A chart form is provided for making your entries. Your first entry will be tomorrow. Make sure you start with the proper day on the chart.

Read the directions on the chart carefully and keep it with you all week. You need only write the authors' names once on the chart. The author is needed only for books.

Please return the chart to me (hall counselor) at our meeting next week (seven nights from tonight).

The information collected will be kept confidential and in no way will affect your academic progress at Ohio University.

The results of this survey will be very interesting. No one knows how much time students spend or should spend reading. It should be interesting to you to discover exactly how much time you spend reading in a week. When the study is completed, each one of you will be sent a copy of the results so that you may get an idea of the average amount of time freshmen spend reading and how much they read.

Your participation will be a real contribution to the Ohio University community. Thank you very much.

Note: Pass out chart forms now.
Each freshman should read the directions on the chart and have an opportunity to ask questions at this time.

Appendix 7

"The Reading Laboratory is doing a study of the time, the amount and the kind of reading college freshmen do. We're interested in finding out just how much time a freshman spends reading. We also want to know how his reading varies from week to week. We have randomly assigned each male dormitory on campus to each week in this semester and next semester. This next week is the week for this dorm. Here's what we'd like you to do. At your meeting with the freshmen tomorrow night, we'd like you to hand out this reading chart form which I will pass out. Then we'd like you to read, word for word, from this paper, a speech we've prepared describing the study to the freshmen. Then pass out the charts and answer any questions after the freshmen have read the directions on the chart form.

Pass out the charts Wednesday night at your meeting. The freshmen start filling out the form Thursday morning. Another dorm will finish Wednesday night.

Make sure a chart form gets in the hands of every freshman on your hall.

They put down all the reading they do.

Make sure the names are on the charts when you collect them.

If a freshman is obviously cheating by filling in the entire chart at the last minute, throw the chart away or do not accept it. We want the study to be as honest as possible and these meetings as uniform as possible.

Please try to treat the study in a serious manner. Collect the charts a week from Wednesday and return them to the resident director.

I certainly appreciate your help. (Pass out the charts.) Are there any questions?

Appendix 8

Reading Laboratory
College of Education
Ohio University
Athens, Ohio

January 4, 1966

Dear Freshman,

THIS LETTER OFFERS YOU A CHANCE TO MAKE SOME EASY MONEY NEXT SEMESTER.

You are one of 50 freshmen chosen randomly from the entire freshmen class at Ohio University to participate in a large research project and be paid for doing so. The Reading Laboratory is conducting a study of the time, the amount and the kind of reading freshmen do during an academic year. You may have already filled out a chart in your dorm. Whether you did or not does not matter. Next semester we are paying 50 freshmen (you are one) to keep a record of their reading for 14 weeks. The salary will be twenty dollars ($20.00), more than two dollars an hour. If you are interested in participating, please attend a meeting Thursday, January 13, at 7 p.m. in Room 115 of McCracken Hall (Education Building). If you are interested and for some reason cannot attend the meeting, please call Mr. Yarington 594-5809 and let him know before January 13th.

Thank you very much,

David J. Yarington

DJY lj

Appendix 9

SCHEDULE FOR KEEPING CHART

Week	Th. W.
1	2/3-2/9
2	2/10-2/16
3	2/17-2/23
4	2/24-3/2
5	3/3-3/9
6	3/10-3/16
7	3/17-3/23
8	4/7-4/13
9	4/14-4/20
10	4/21-4/27
11	4/28-5/4
12	5/5-5/11
13	5/12-5/18
14	5/19-5/25

Start each chart on Thursday (top of 2nd page) morning and finish Wednesday at 12 p.m.

David J. Yarington
340 McCracken Hall
594-5809

Appendix 10

LETTER TO AND RESPONSES FROM NONPARTICIPANTS

Dear Freshman,

You were recently offered an opportunity to make twenty dollars by keeping charts of your reading for the entire second semester.

Of the fifty students who were offered the job, thirty seven accepted, four dropped out of school, and nine refused.

Just for the record, I would like an honest statement from you as to why you refused to take part in the project. I assure you your statement will remain anonymous. I ask for your signature only to make sure all nine students return a statement.

Please write a few sentences at the bottom of this page stating why you refused to receive twenty dollars for keeping a reading chart every week of the second semester and mail it to me in the enclosed envelope.

Thank you,

David J. Yarington

Responses:

I failed to fill out the reading reports because I forgot many times to put down the material needed on the sheets. When I did fill out the sheets I forgot to turn them in. Sorry for the trouble I have caused.

This past semester I was placed on probation because of the low grades I received during the first semester. I had discussed my situation with a number of people and came up with some suggestions of better study. The main one was that I shouldn't get involved in any activities that could take any of my time. I wanted to take up your offer and it was a very generous one, but I felt that one thing leads to another and soon I would be burdened with other activities that would cut down on my study time. I'm sure you understand and I thank you for your time.

Upon considering the inconvenience caused by keeping a reading chart for one week last semester, I didn't consider keeping the chart for an entire semester worth twenty dollars. However, I thank you for your offer.

To be honest, I felt that I would be unable to keep a daily record of my reading. I am forgetful and I didn't want to turn an incomplete record over to you.

I am sorry that I refused your offer of twenty dollars for keeping charts of my reading. Since this offer came to me at the close of the first semester, I had to refuse your offer because I didn't know for sure whether or not I would be dropped from the University because of my low grades. I sincerely offer my assistance to you if I can be any aid to you in the future.

There is no definite reason why I didn't participate. It can only be attributed to lack of time and financial stability.

I would have completed the reading charts, but I could not get in touch with you. Twice I made special trips from the West Green over to the Education building only to find the door to the Reading Laboratory locked. I'm sorry we could not get together, as I certainly could use the twenty dollars.

My name is ----------. I received two other letters from you, but they were not intended for me because of incorrect mailing. I returned them to the phone desk operator for remailing thinking that they would be sent to the correct person. Apparently, they were not. I'm sorry if I have caused you any trouble.

I pledged a fraternity this second semester and didn't figure I had time. No matter how much time people say you don't have to spend on extra curricular activities around this place. I have found that you do! I figured I didn't have time thats why I didn't do it.

Appendix 11

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 1

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	87	254.56	279.35	0.22	0.04	0.04
TOTAL HOURS	87	1.27	0.90	0.22	0.04	-0.01
REQUIRED PAGES	87	185.46	187.89	0.22	0.04	0.05
REQUIRED HOURS	87	0.99	0.72	0.22	0.04	-0.01
UNREQD PAGES	87	69.24	171.86	0.22	0.04	0.01
UNREQD HOURS	87	0.28	0.37	0.22	0.04	-0.01
ENGLISH HOURS	87	0.30	0.31	0.22	0.04	-0.14
MATH HOURS	87	0.18	0.32	0.22	0.04	0.09
NAT SCI HOURS	87	0.17	0.24	0.22	0.04	0.02
SOC SCI HOURS	87	0.39	0.91	0.22	0.04	-0.04
HUMANITIES HRS	87	0.12	0.27	0.22	0.04	-0.03
LITERATURE HRS	87	0.12	0.29	0.22	0.04	0.02
MAG-NEWS HOURS	87	0.14	0.22	0.22	0.04	0.06
NOTES HOURS	87	0.02	0.08	0.22	0.04	0.05
ENGLISH PAGES	87	62.60	70.32	0.22	0.04	0.01
MATH PAGES	87	25.62	53.07	0.22	0.04	0.18
NAT SCI PAGES	87	26.52	36.87	0.22	0.04	0.13
SOC SCI PAGES	87	60.18	101.10	0.22	0.04	0.01
HUMANITIES PGS	87	22.16	54.16	0.22	0.04	0.05
LITERATURE PGS	87	62.26	174.11	0.22	0.04	-0.02

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	82	249.40	262.85	2.02	0.68	-0.18
TOTAL HOURS	82	1.33	0.94	2.02	0.68	-0.08
REQUIRED PAGES	82	190.11	189.78	2.02	0.68	-0.16
REQUIRED HOURS	82	1.02	0.74	2.02	0.68	-0.06
UNREQD PAGES	82	59.22	144.61	2.02	0.68	-0.13
UNREQD HOURS	82	0.31	0.41	2.02	0.68	-0.06
ENGLISH HOURS	82	0.31	0.31	2.02	0.68	-0.13
MATH HOURS	82	0.19	0.32	2.02	0.68	-0.02
NAT SCI HOURS	82	0.20	0.31	2.02	0.68	0.08
SOC SCI HOURS	82	0.40	0.94	2.02	0.68	-0.24
HUMANITIES HRS	82	0.11	0.27	2.02	0.68	-0.18
LITERATURE HRS	82	0.11	0.29	2.02	0.68	-0.18
MAG-NEWS HOURS	82	0.16	0.26	2.02	0.68	-0.03
NOTES HOURS	82	0.02	0.08	2.02	0.68	-0.02
ENGLISH PAGES	82	64.37	70.34	2.02	0.68	-0.02
MATH PAGES	82	27.83	54.72	2.02	0.68	-0.03
NAT SCI PAGES	82	29.98	38.98	2.02	0.68	0.17
SOC SCI PAGES	82	60.71	103.85	2.02	0.68	-0.22
HUMANITIES PGS	82	21.68	55.03	2.02	0.68	-0.10
LITERATURE PGS	82	49.91	146.76	2.02	0.68	-0.20

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 2

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	98	239.08	167.10	0.24	0.04	0.11
TOTAL HOURS	98	1.27	0.67	0.24	0.04	-0.14
REQUIRED PAGES	98	163.18	96.27	0.24	0.04	-0.01
REQUIRED HOURS	98	0.88	0.50	0.24	0.04	-0.10
UNREQD PAGES	98	79.19	136.91	0.24	0.04	0.16
UNREQD HOURS	98	0.40	0.42	0.24	0.04	-0.10
ENGLISH HOURS	98	0.23	0.19	0.24	0.04	-0.10
MATH HOURS	98	0.14	0.21	0.24	0.04	-0.06
NAT SCI HOURS	98	0.14	0.21	0.24	0.04	0.05
SOC SCI HOURS	98	0.36	0.38	0.24	0.04	-0.13
HUMANITIES HRS	98	0.07	0.13	0.24	0.04	-0.14
LITERATURE HRS	98	0.11	0.22	0.24	0.04	0.22
MAG-NEWS HOURS	98	0.19	0.23	0.24	0.04	-0.03
NOTES HOURS	98	0.04	0.14	0.24	0.04	-0.28
ENGLISH PAGES	98	59.70	74.40	0.24	0.04	0.05
MATH PAGES	98	20.78	35.77	0.24	0.04	0.01
NAT SCI PAGES	98	19.15	29.19	0.24	0.04	0.05
SOC SCI PAGES	98	68.50	78.84	0.24	0.04	-0.11
HUMANITIES PGS	98	13.74	29.22	0.24	0.04	-0.04
LITERATURE PGS	98	63.93	143.82	0.24	0.04	0.18

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	117	229.98	156.25	2.27	0.68	-0.11
TOTAL HOURS	117	1.24	0.64	2.27	0.68	-0.10
REQUIRED PAGES	117	161.03	91.05	2.27	0.68	0.03
REQUIRED HOURS	117	0.85	0.49	2.27	0.68	-0.01
UNREQD PAGES	117	71.71	129.50	2.27	0.68	-0.12
UNREQD HOURS	117	0.39	0.41	2.27	0.68	-0.14
ENGLISH HOURS	117	0.23	0.19	2.27	0.68	0.11
MATH HOURS	117	0.14	0.20	2.27	0.68	-0.18
NAT SCI HOURS	117	0.15	0.21	2.27	0.68	0.03
SOC SCI HOURS	117	0.34	0.37	2.27	0.68	0.00
HUMANITIES HRS	117	0.06	0.11	2.27	0.68	-0.13
LITERATURE HRS	117	0.10	0.21	2.27	0.68	-0.11
MAG-NEWS HOURS	117	0.20	0.25	2.27	0.68	0.06
NOTES HOURS	117	0.05	0.14	2.27	0.68	-0.02
ENGLISH PAGES	117	59.03	69.96	2.27	0.68	0.16
MATH PAGES	117	19.39	34.32	2.27	0.68	-0.07
NAT SCI PAGES	117	21.28	31.65	2.27	0.68	0.04
SOC SCI PAGES	117	66.12	75.14	2.27	0.68	-0.02
HUMANITIES PGS	117	11.26	26.58	2.27	0.68	-0.04
LITERATURE PGS	117	58.53	135.53	2.27	0.68	-0.16

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 3

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	80	171.99	122.84	0.23	0.04	-0.03
TOTAL HOURS	80	1.05	0.69	0.23	0.04	-0.20
REQUIRED PAGES	80	134.35	91.02	0.23	0.04	-0.12
REQUIRED HOURS	80	0.75	0.60	0.23	0.04	-0.25
UNREQD PAGES	80	39.74	71.60	0.23	0.04	0.11
UNREQD HOURS	80	0.28	0.30	0.23	0.04	0.02
ENGLISH HOURS	80	0.19	0.17	0.23	0.04	0.10
MATH HOURS	80	0.12	0.20	0.23	0.04	-0.04
NAT SCI HOURS	80	0.16	0.25	0.23	0.04	-0.19
SOC SCI HOURS	80	0.26	0.36	0.23	0.04	-0.26
HUMANITIES HRS	80	0.05	0.12	0.23	0.04	-0.02
LITERATURE HRS	80	0.06	0.14	0.23	0.04	0.02
MAG-NEWS HOURS	80	0.16	0.19	0.23	0.04	-0.03
NOTES HOURS	80	0.04	0.09	0.23	0.04	-0.02
ENGLISH PAGES	80	47.15	41.72	0.23	0.04	0.07
MATH PAGES	80	15.59	26.26	0.23	0.04	0.13
NAT SCI PAGES	80	21.29	35.24	0.23	0.04	-0.11
SOC SCI PAGES	80	49.79	66.92	0.23	0.04	-0.16
HUMANITIES PGS	80	9.84	21.29	0.23	0.04	-0.02
LITERATURE PGS	80	28.87	67.26	0.23	0.04	0.08

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	82	183.90	129.49	2.24	0.66	0.04
TOTAL HOURS	82	1.13	0.70	2.24	0.66	-0.08
REQUIRED PAGES	82	141.99	90.45	2.24	0.66	-0.06
REQUIRED HOURS	82	0.81	0.58	2.24	0.66	-0.03
UNREQD PAGES	82	43.96	74.54	2.24	0.66	0.17
UNREQD HOURS	82	0.30	0.32	2.24	0.66	-0.04
ENGLISH HOURS	82	0.19	0.17	2.24	0.66	0.08
MATH HOURS	82	0.14	0.23	2.24	0.66	-0.08
NAT SCI HOURS	82	0.17	0.25	2.24	0.66	-0.04
SOC SCI HOURS	82	0.28	0.38	2.24	0.66	-0.11
HUMANITIES HRS	82	0.06	0.12	2.24	0.66	0.04
LITERATURE HRS	82	0.08	0.15	2.24	0.66	0.15
MAG-NEWS HOURS	82	0.17	0.22	2.24	0.66	-0.10
NOTES HOURS	82	0.05	0.11	2.24	0.66	0.01
ENGLISH PAGES	82	46.43	42.55	2.24	0.66	0.03
MATH PAGES	82	15.56	23.63	2.24	0.66	-0.03
NAT SCI PAGES	82	24.40	38.73	2.24	0.66	-0.04
SOC SCI PAGES	82	54.06	73.10	2.24	0.66	-0.08
HUMANITIES PGS	82	10.84	21.84	2.24	0.66	-0.01
LITERATURE PGS	82	33.13	71.89	2.24	0.66	0.18

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 4

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	59	241.88	232.62	0.23	0.04	0.08
TOTAL HOURS	59	1.33	0.72	0.23	0.04	0.09
REQUIRED PAGES	59	218.17	350.13	0.23	0.04	0.09
REQUIRED HOURS	59	0.91	0.53	0.23	0.04	-0.03
UNREQD PAGES	59	67.58	100.66	0.23	0.04	0.18
UNREQD HOURS	59	0.42	0.46	0.23	0.04	0.18
ENGLISH HOURS	59	0.20	0.18	0.23	0.04	-0.10
MATH HOURS	59	0.20	0.30	0.23	0.04	0.16
NAT SCI HOURS	59	0.18	0.27	0.23	0.04	0.06
SOC SCI HOURS	59	0.29	0.40	0.23	0.04	-0.11
HUMANITIES HRS	59	0.11	0.21	0.23	0.04	-0.10
LITERATURE HRS	59	0.08	0.14	0.23	0.04	0.41
MAG-NEWS HOURS	59	0.16	0.19	0.23	0.04	0.14
NOTES HOURS	59	0.10	0.22	0.23	0.04	0.01
ENGLISH PAGES	59	46.07	48.53	0.23	0.04	-0.00
MATH PAGES	59	23.66	37.88	0.23	0.04	0.05
NAT SCI PAGES	59	38.66	66.09	0.23	0.04	0.02
SOC SCI PAGES	59	71.51	120.81	0.23	0.04	-0.03
HUMANITIES PGS	59	28.34	96.25	0.23	0.04	0.04
LITERATURE PGS	59	40.05	72.52	0.23	0.04	0.30

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	70	237.63	224.97	2.05	0.65	0.10
TOTAL HOURS	70	1.32	0.71	2.05	0.65	0.27
REQUIRED PAGES	70	202.79	324.19	2.05	0.65	0.08
REQUIRED HOURS	70	0.90	0.52	2.05	0.65	0.28
UNREQD PAGES	70	70.59	122.98	2.05	0.65	0.03
UNREQD HOURS	70	0.41	0.48	2.05	0.65	0.07
ENGLISH HOURS	70	0.17	0.17	2.05	0.65	0.16
MATH HOURS	70	0.20	0.31	2.05	0.65	0.03
NAT SCI HOURS	70	0.19	0.27	2.05	0.65	0.09
SOC SCI HOURS	70	0.29	0.39	2.05	0.65	0.21
HUMANITIES HRS	70	0.11	0.20	2.05	0.65	-0.01
LITERATURE HRS	70	0.10	0.18	2.05	0.65	0.07
MAG-NEWS HOURS	70	0.15	0.19	2.05	0.65	0.13
NOTES HOURS	70	0.10	0.23	2.05	0.65	0.08
ENGLISH PAGES	70	39.90	49.56	2.05	0.65	0.00
MATH PAGES	70	26.54	41.56	2.05	0.65	0.00
NAT SCI PAGES	70	36.79	61.84	2.05	0.65	0.03
SOC SCI PAGES	70	68.66	115.32	2.05	0.65	0.22
HUMANITIES PGS	70	24.91	88.48	2.05	0.65	-0.07
LITERATURE PGS	70	45.09	94.89	2.05	0.65	0.04

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 5

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	145	269.89	230.26	0.23	0.04	0.11
TOTAL HOURS	145	1.54	0.96	0.23	0.04	-0.03
REQUIRED PAGES	145	217.51	200.02	0.23	0.04	0.06
REQUIRED HOURS	145	1.13	0.77	0.23	0.04	0.02
UNREQD PAGES	145	59.33	111.36	0.23	0.04	0.18
UNREQD HOURS	145	0.44	0.50	0.23	0.04	-0.07
ENGLISH HOURS	145	0.16	0.20	0.23	0.04	0.04
MATH HOURS	145	0.16	0.29	0.23	0.04	0.18
NAT SCI HOURS	145	0.21	0.31	0.23	0.04	-0.08
SOC SCI HOURS	145	0.48	0.52	0.23	0.04	-0.01
HUMANITIES HRS	145	0.10	0.20	0.23	0.04	0.14
LITERATURE HRS	145	0.06	0.17	0.23	0.04	0.14
MAG-NEWS HOURS	145	0.18	0.19	0.23	0.04	0.09
NOTES HOURS	145	0.21	0.41	0.23	0.04	-0.23
ENGLISH PAGES	145	41.17	73.96	0.23	0.04	0.05
MATH PAGES	145	22.48	43.41	0.23	0.04	0.24
NAT SCI PAGES	145	44.46	79.00	0.23	0.04	-0.03
SOC SCI PAGES	145	112.94	141.96	0.23	0.04	-0.04
HUMANITIES PGS	145	22.08	52.35	0.23	0.04	0.19
LITERATURE PGS	145	24.74	69.79	0.23	0.04	0.11

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	150	280.21	229.87	2.16	0.61	0.15
TOTAL HOURS	150	1.58	0.94	2.16	0.61	0.25
REQUIRED PAGES	150	227.38	203.85	2.16	0.61	0.15
REQUIRED HOURS	150	1.15	0.79	2.16	0.61	0.26
UNREQD PAGES	150	59.61	110.42	2.16	0.61	-0.01
UNREQD HOURS	150	0.45	0.48	2.16	0.61	0.04
ENGLISH HOURS	150	0.17	0.20	2.16	0.61	0.15
MATH HOURS	150	0.16	0.30	2.16	0.61	0.18
NAT SCI HOURS	150	0.22	0.32	2.16	0.61	0.02
SOC SCI HOURS	150	0.52	0.55	2.16	0.61	0.16
HUMANITIES HRS	150	0.10	0.20	2.16	0.61	0.13
LITERATURE HRS	150	0.06	0.17	2.16	0.61	0.05
MAG-NEWS HOURS	150	0.18	0.19	2.16	0.61	0.02
NOTES HOURS	150	0.19	0.38	2.16	0.61	0.05
ENGLISH PAGES	150	42.03	72.57	2.16	0.61	0.09
MATH PAGES	150	21.95	42.92	2.16	0.61	0.17
NAT SCI PAGES	150	47.05	82.18	2.16	0.61	0.07
SOC SCI PAGES	150	120.09	150.34	2.16	0.61	0.09
HUMANITIES PGS	150	21.57	51.66	2.16	0.61	0.08
LITERATURE PGS	150	25.11	70.37	2.16	0.61	-0.02

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 6

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	56	227.68	149.77	0.24	0.03	-0.14
TOTAL HOURS	56	1.57	0.78	0.24	0.03	-0.29
REQUIRED PAGES	56	171.48	113.39	0.24	0.03	-0.13
REQUIRED HOURS	56	0.99	0.73	0.24	0.03	-0.22
UNREQD PAGES	56	65.50	103.96	0.24	0.03	-0.22
UNREQD HOURS	56	0.59	0.43	0.24	0.03	-0.16
ENGLISH HOURS	56	0.19	0.20	0.24	0.03	0.02
MATH HOURS	56	0.24	0.34	0.24	0.03	-0.08
NAT SCI HOURS	56	0.22	0.32	0.24	0.03	-0.18
SOC SCI HOURS	56	0.27	0.32	0.24	0.03	-0.21
HUMANITIES HRS	56	0.14	0.28	0.24	0.03	-0.22
LITERATURE HRS	56	0.06	0.15	0.24	0.03	0.09
MAG-NEWS HOURS	56	0.22	0.20	0.24	0.03	0.15
NOTES HOURS	56	0.19	0.31	0.24	0.03	-0.19
ENGLISH PAGES	56	46.50	58.86	0.24	0.03	0.08
MATH PAGES	56	35.86	55.91	0.24	0.03	0.02
NAT SCI PAGES	56	37.68	62.63	0.24	0.03	-0.08
SOC SCI PAGES	56	57.89	84.49	0.24	0.03	-0.19
HUMANITIES PGS	56	27.45	52.97	0.24	0.03	-0.17
LITERATURE PGS	56	16.95	44.19	0.24	0.03	0.10

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	55	222.56	153.44	2.12	0.58	-0.05
TOTAL HOURS	55	1.47	0.72	2.12	0.58	-0.06
REQUIRED PAGES	55	164.09	117.48	2.12	0.58	0.00
REQUIRED HOURS	55	0.88	0.56	2.12	0.58	0.08
UNREQD PAGES	55	67.95	104.60	2.12	0.58	-0.15
UNREQD HOURS	55	0.61	0.47	2.12	0.58	-0.14
ENGLISH HOURS	55	0.19	0.21	2.12	0.58	0.27
MATH HOURS	55	0.22	0.31	2.12	0.58	-0.08
NAT SCI HOURS	55	0.22	0.35	2.12	0.58	-0.01
SOC SCI HOURS	55	0.24	0.32	2.12	0.58	0.03
HUMANITIES HRS	55	0.12	0.22	2.12	0.58	-0.16
LITERATURE HRS	55	0.06	0.15	2.12	0.58	-0.30
MAG-NEWS HOURS	55	0.23	0.20	2.12	0.58	-0.10
NOTES HOURS	55	0.19	0.31	2.12	0.58	-0.05
ENGLISH PAGES	55	47.13	59.38	2.12	0.58	0.12
MATH PAGES	55	34.69	52.82	2.12	0.58	0.12
NAT SCI PAGES	55	38.44	63.16	2.12	0.58	-0.07
SOC SCI PAGES	55	54.67	85.81	2.12	0.58	0.03
HUMANITIES PGS	55	25.47	48.04	2.12	0.58	-0.07
LITERATURE PGS	55	16.71	44.55	2.12	0.58	-0.21

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 7

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	56	177.84	108.68	0.23	0.04	-0.22
TOTAL HOURS	56	1.54	0.79	0.23	0.04	-0.17
REQUIRED PAGES	56	148.66	102.11	0.23	0.04	-0.33
REQUIRED HOURS	56	1.14	0.71	0.23	0.04	-0.25
UNREQD PAGES	56	32.18	53.90	0.23	0.04	0.16
UNREQD HOURS	56	0.37	0.37	0.23	0.04	0.10
ENGLISH HOURS	56	0.21	0.22	0.23	0.04	-0.06
MATH HOURS	56	0.18	0.29	0.23	0.04	0.18
NAT SCI HOURS	56	0.23	0.28	0.23	0.04	0.22
SOC SCI HOURS	56	0.41	0.43	0.23	0.04	-0.43
HUMANITIES HRS	56	0.07	0.16	0.23	0.04	-0.33
LITERATURE HRS	56	0.06	0.14	0.23	0.04	-0.00
MAG-NEWS HOURS	56	0.22	0.21	0.23	0.04	0.00
NOTES HOURS	56	0.13	0.24	0.23	0.04	0.02
ENGLISH PAGES	56	39.70	47.39	0.23	0.04	-0.09
MATH PAGES	56	15.68	25.29	0.23	0.04	0.12
NAT SCI PAGES	56	24.16	27.50	0.23	0.04	0.38
SOC SCI PAGES	56	67.07	73.31	0.23	0.04	-0.41
HUMANITIES PGS	56	9.61	18.64	0.23	0.04	-0.46
LITERATURE PGS	56	20.75	51.95	0.23	0.04	0.10

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	61	171.46	106.76	2.26	0.62	-0.04
TOTAL HOURS	61	1.52	0.82	2.26	0.62	-0.02
REQUIRED PAGES	61	144.67	99.24	2.26	0.62	-0.02
REQUIRED HOURS	61	1.13	0.72	2.26	0.62	0.02
UNREQD PAGES	61	29.54	52.39	2.26	0.62	-0.11
UNREQD HOURS	61	0.37	0.37	2.26	0.62	0.02
ENGLISH HOURS	61	0.20	0.23	2.26	0.62	0.01
MATH HOURS	61	0.21	0.32	2.26	0.62	0.06
NAT SCI HOURS	61	0.21	0.27	2.26	0.62	0.21
SOC SCI HOURS	61	0.40	0.42	2.26	0.62	-0.16
HUMANITIES HRS	61	0.07	0.15	2.26	0.62	-0.29
LITERATURE HRS	61	0.06	0.14	2.26	0.62	-0.05
MAG-NEWS HOURS	61	0.22	0.22	2.26	0.62	-0.05
NOTES HOURS	61	0.13	0.24	2.26	0.62	0.11
ENGLISH PAGES	61	37.21	46.46	2.26	0.62	0.06
MATH PAGES	61	17.08	27.44	2.26	0.62	0.07
NAT SCI PAGES	61	22.18	27.17	2.26	0.62	0.21
SOC SCI PAGES	61	63.80	71.07	2.26	0.62	-0.19
HUMANITIES PGS	61	9.54	18.13	2.26	0.62	-0.30
LITERATURE PGS	61	20.84	51.31	2.26	0.62	0.04

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 8

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	80	223.57	231.02	0.23	0.03	0.12
TOTAL HOURS	80	1.68	1.31	0.23	0.03	0.03
REQUIRED PAGES	80	170.86	211.93	0.23	0.03	0.03
REQUIRED HOURS	80	1.07	0.72	0.23	0.03	-0.06
UNREQD PAGES	80	52.96	108.43	0.23	0.03	0.20
UNREQD HOURS	80	0.41	0.43	0.23	0.03	0.20
ENGLISH HOURS	80	0.16	0.19	0.23	0.03	0.11
MATH HOURS	80	0.28	0.37	0.23	0.03	0.22
NAT SCI HOURS	80	0.21	0.27	0.23	0.03	0.05
SOC SCI HOURS	80	0.37	0.41	0.23	0.03	-0.13
HUMANITIES HRS	80	0.11	0.28	0.23	0.03	-0.19
LITERATURE HRS	80	0.07	0.16	0.23	0.03	0.23
MAG-NEWS HOURS	80	0.20	0.27	0.23	0.03	0.17
NOTES HOURS	80	0.11	0.24	0.23	0.03	-0.07
ENGLISH PAGES	80	44.37	99.36	0.23	0.03	0.09
MATH PAGES	80	34.05	64.34	0.23	0.03	0.13
NAT SCI PAGES	80	28.92	41.03	0.23	0.03	0.10
SOC SCI PAGES	80	74.07	130.86	0.23	0.03	-0.07
HUMANITIES PGS	80	11.12	23.17	0.23	0.03	-0.15
LITERATURE PGS	80	31.14	86.45	0.23	0.03	0.21

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	88	221.81	225.84	2.04	0.63	0.03
TOTAL HOURS	88	1.63	1.27	2.04	0.63	-0.04
REQUIRED PAGES	88	173.47	204.85	2.04	0.63	0.02
REQUIRED HOURS	88	1.07	0.72	2.04	0.63	0.12
UNREQD PAGES	88	48.57	104.19	2.04	0.63	0.03
UNREQD HOURS	88	0.39	0.40	2.04	0.63	-0.09
ENGLISH HOURS	88	0.17	0.18	2.04	0.63	0.11
MATH HOURS	88	0.26	0.37	2.04	0.63	0.16
NAT SCI HOURS	88	0.23	0.29	2.04	0.63	0.09
SOC SCI HOURS	88	0.34	0.39	2.04	0.63	-0.07
HUMANITIES HRS	88	0.12	0.28	2.04	0.63	0.07
LITERATURE HRS	88	0.07	0.16	2.04	0.63	-0.06
MAG-NEWS HOURS	88	0.20	0.26	2.04	0.63	-0.13
NOTES HOURS	88	0.09	0.22	2.04	0.63	0.01
ENGLISH PAGES	88	45.18	94.98	2.04	0.63	0.07
MATH PAGES	88	31.58	62.16	2.04	0.63	0.02
NAT SCI PAGES	88	31.76	43.45	2.04	0.63	-0.04
SOC SCI PAGES	88	70.60	125.55	2.04	0.63	0.02
HUMANITIES PGS	88	13.12	25.64	2.04	0.63	0.04
LITERATURE PGS	88	29.66	83.71	2.04	0.63	-0.03

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 9

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	79	221.20	144.03	0.23	0.03	-0.11
TOTAL HOURS	79	1.64	0.94	0.23	0.03	-0.09
REQUIRED PAGES	79	180.04	127.81	0.23	0.03	-0.06
REQUIRED HOURS	79	1.28	0.84	0.23	0.03	0.01
UNREQD PAGES	79	41.30	82.04	0.23	0.03	-0.10
UNREQD HOURS	79	0.38	0.38	0.23	0.03	-0.06
ENGLISH HOURS	79	0.18	0.26	0.23	0.03	-0.03
MATH HOURS	79	0.35	0.39	0.23	0.03	0.03
NAT SCI HOURS	79	0.19	0.26	0.23	0.03	0.35
SOC SCI HOURS	79	0.49	0.63	0.23	0.03	-0.21
HUMANITIES HRS	79	0.08	0.17	0.23	0.03	-0.15
LITERATURE HRS	79	0.05	0.13	0.23	0.03	0.12
MAG-NEWS HOURS	79	0.19	0.20	0.23	0.03	0.14
NOTES HOURS	79	0.13	0.24	0.23	0.03	-0.11
ENGLISH PAGES	79	24.39	35.33	0.23	0.03	-0.01
MATH PAGES	79	38.94	49.21	0.23	0.03	-0.05
NAT SCI PAGES	79	28.84	42.21	0.23	0.03	0.24
SOC SCI PAGES	79	97.09	125.91	0.23	0.03	-0.21
HUMANITIES PGS	79	11.66	25.06	0.23	0.03	-0.05
LITERATURE PGS	79	19.43	57.87	0.23	0.03	0.10

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	80	234.09	169.37	2.16	0.63	-0.05
TOTAL HOURS	80	1.67	0.92	2.16	0.63	-0.02
REQUIRED PAGES	80	188.95	142.26	2.16	0.63	0.03
REQUIRED HOURS	80	1.33	0.82	2.16	0.63	0.08
UNREQD PAGES	80	45.27	85.26	2.16	0.63	-0.14
UNREQD HOURS	80	0.37	0.38	2.16	0.63	-0.04
ENGLISH HOURS	80	0.18	0.26	2.16	0.63	0.02
MATH HOURS	80	0.34	0.38	2.16	0.63	-0.08
NAT SCI HOURS	80	0.19	0.26	2.16	0.63	0.09
SOC SCI HOURS	80	0.51	0.64	2.16	0.63	0.03
HUMANITIES HRS	80	0.09	0.18	2.16	0.63	-0.05
LITERATURE HRS	80	0.05	0.13	2.16	0.63	-0.12
MAG-NEWS HOURS	80	0.19	0.20	2.16	0.63	0.08
NOTES HOURS	80	0.13	0.24	2.16	0.63	0.19
ENGLISH PAGES	80	27.22	41.25	2.16	0.63	0.08
MATH PAGES	80	40.29	51.45	2.16	0.63	-0.17
NAT SCI PAGES	80	27.55	41.15	2.16	0.63	0.13
SOC SCI PAGES	80	100.79	130.90	2.16	0.63	0.04
HUMANITIES PGS	80	15.90	43.37	2.16	0.63	-0.13
LITERATURE PGS	80	21.49	59.97	2.16	0.63	-0.12

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 10

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	113	207.82	225.13	0.22	0.04	-0.13
TOTAL HOURS	113	1.37	0.91	0.22	0.04	-0.20
REQUIRED PAGES	113	156.37	175.20	0.22	0.04	-0.15
REQUIRED HOURS	113	0.93	0.71	0.22	0.04	-0.30
UNREQD PAGES	113	52.05	134.66	0.22	0.04	-0.03
UNREQD HOURS	113	0.43	0.54	0.22	0.04	0.05
ENGLISH HOURS	113	0.11	0.18	0.22	0.04	-0.11
MATH HOURS	113	0.17	0.26	0.22	0.04	0.07
NAT SCI HOURS	113	0.22	0.39	0.22	0.04	-0.02
SOC SCI HOURS	113	0.37	0.59	0.22	0.04	-0.33
HUMANITIES HRS	113	0.10	0.21	0.22	0.04	0.03
LITERATURE HRS	113	0.05	0.15	0.22	0.04	0.02
MAG-NEWS HOURS	113	0.23	0.22	0.22	0.04	0.15
NOTES HOURS	113	0.11	0.25	0.22	0.04	-0.07
ENGLISH PAGES	113	27.39	64.30	0.22	0.04	-0.09
MATH PAGES	113	25.05	57.46	0.22	0.04	0.15
NAT SCI PAGES	113	39.72	80.11	0.22	0.04	-0.01
SOC SCI PAGES	113	80.35	151.72	0.22	0.04	-0.24
HUMANITIES PGS	113	14.76	44.94	0.22	0.04	-0.05
LITERATURE PGS	113	20.54	71.48	0.22	0.04	0.11

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	131	203.65	217.75	2.04	0.61	0.00
TOTAL HOURS	131	1.35	0.90	2.04	0.61	-0.09
REQUIRED PAGES	131	151.98	167.95	2.04	0.61	-0.03
REQUIRED HOURS	131	0.91	0.71	2.04	0.61	-0.15
UNREQD PAGES	131	52.18	129.35	2.04	0.61	0.03
UNREQD HOURS	131	0.43	0.52	2.04	0.61	0.04
ENGLISH HOURS	131	0.12	0.22	2.04	0.61	-0.02
MATH HOURS	131	0.18	0.26	2.04	0.61	-0.01
NAT SCI HOURS	131	0.23	0.40	2.04	0.61	-0.05
SOC SCI HOURS	131	0.32	0.54	2.04	0.61	-0.04
HUMANITIES HRS	131	0.09	0.21	2.04	0.61	-0.06
LITERATURE HRS	131	0.06	0.16	2.04	0.61	0.07
MAG-NEWS HOURS	131	0.23	0.21	2.04	0.61	0.01
NOTES HOURS	131	0.12	0.28	2.04	0.61	-0.13
ENGLISH PAGES	131	27.14	64.68	2.04	0.61	0.04
MATH PAGES	131	29.04	62.67	2.04	0.61	-0.03
NAT SCI PAGES	131	40.44	82.04	2.04	0.61	-0.02
SOC SCI PAGES	131	69.52	138.36	2.04	0.61	-0.03
HUMANITIES PGS	131	14.31	42.85	2.04	0.61	-0.09
LITERATURE PGS	131	23.18	74.21	2.04	0.61	0.11

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 11

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	91	221.91	205.05	0.23	0.04	0.07
TOTAL HOURS	91	1.45	0.77	0.23	0.04	0.01
REQUIRED PAGES	91	156.67	131.40	0.23	0.04	0.13
REQUIRED HOURS	91	0.99	0.61	0.23	0.04	0.06
UNREQD PAGES	91	58.53	134.40	0.23	0.04	-0.02
UNREQD HOURS	91	0.46	0.40	0.23	0.04	-0.09
ENGLISH HOURS	91	0.12	0.18	0.23	0.04	0.15
MATH HOURS	91	0.21	0.28	0.23	0.04	0.17
NAT SCI HOURS	91	0.26	0.34	0.23	0.04	-0.05
SOC SCI HOURS	91	0.32	0.43	0.23	0.04	-0.22
HUMANITIES HRS	91	0.10	0.23	0.23	0.04	0.21
LITERATURE HRS	91	0.08	0.19	0.23	0.04	0.03
MAG-NEWS HOURS	91	0.29	0.27	0.23	0.04	0.14
NOTES HOURS	91	0.08	0.17	0.23	0.04	-0.07
ENGLISH PAGES	91	27.91	48.51	0.23	0.04	0.14
MATH PAGES	91	29.82	54.45	0.23	0.04	0.16
NAT SCI PAGES	91	42.01	65.87	0.23	0.04	0.10
SOC SCI PAGES	91	65.80	100.06	0.23	0.04	-0.20
HUMANITIES PGS	91	16.46	34.79	0.23	0.04	0.22
LITERATURE PGS	91	40.23	129.16	0.23	0.04	0.03

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	97	240.88	208.26	2.16	0.66	0.04
TOTAL HOURS	97	1.52	0.74	2.16	0.66	0.11
REQUIRED PAGES	97	169.80	138.27	2.16	0.66	0.04
REQUIRED HOURS	97	1.05	0.60	2.16	0.66	-0.03
UNREQD PAGES	97	64.68	135.95	2.16	0.66	0.05
UNREQD HOURS	97	0.47	0.40	2.16	0.66	0.23
ENGLISH HOURS	97	0.15	0.21	2.16	0.66	-0.04
MATH HOURS	97	0.21	0.28	2.16	0.66	0.01
NAT SCI HOURS	97	0.25	0.33	2.16	0.66	-0.04
SOC SCI HOURS	97	0.33	0.43	2.16	0.66	-0.10
HUMANITIES HRS	97	0.12	0.25	2.16	0.66	0.19
LITERATURE HRS	97	0.09	0.19	2.16	0.66	-0.04
MAG-NEWS HOURS	97	0.28	0.26	2.16	0.66	0.24
NOTES HOURS	97	0.08	0.18	2.16	0.66	0.16
ENGLISH PAGES	97	33.49	54.11	2.16	0.66	-0.05
MATH PAGES	97	29.36	53.03	2.16	0.66	0.08
NAT SCI PAGES	97	40.07	62.14	2.16	0.66	0.07
SOC SCI PAGES	97	67.42	97.90	2.16	0.66	-0.05
HUMANITIES PGS	97	24.69	63.02	2.16	0.66	0.13
LITERATURE PGS	97	46.05	129.60	2.16	0.66	-0.00

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 12

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	82	224.05	173.70	0.23	0.03	-0.03
TOTAL HOURS	82	1.49	0.96	0.23	0.03	-0.13
REQUIRED PAGES	82	170.68	152.04	0.23	0.03	-0.04
REQUIRED HOURS	82	0.96	0.85	0.23	0.03	-0.17
UNREQD PAGES	82	52.44	114.47	0.23	0.03	0.00
UNREQD HOURS	82	0.53	0.53	0.23	0.03	0.04
ENGLISH HOURS	82	0.08	0.15	0.23	0.03	0.02
MATH HOURS	82	0.22	0.34	0.23	0.03	0.02
NAT SCI HOURS	82	0.20	0.38	0.23	0.03	0.03
SOC SCI HOURS	82	0.44	0.58	0.23	0.03	-0.26
HUMANITIES HRS	82	0.07	0.19	0.23	0.03	0.04
LITERATURE HRS	82	0.08	0.29	0.23	0.03	-0.13
MAG-NEWS HOURS	82	0.27	0.26	0.23	0.03	0.17
NOTES HOURS	82	0.12	0.26	0.23	0.03	-0.05
ENGLISH PAGES	82	17.70	35.47	0.23	0.03	0.10
MATH PAGES	82	25.96	37.91	0.23	0.03	0.10
NAT SCI PAGES	82	32.16	72.09	0.23	0.03	0.06
SOC SCI PAGES	82	79.63	110.39	0.23	0.03	-0.21
HUMANITIES PGS	82	14.46	32.32	0.23	0.03	-0.03
LITERATURE PGS	82	34.89	109.15	0.23	0.03	0.06

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	92	218.65	161.85	2.09	0.71	0.24
TOTAL HOURS	92	1.51	0.93	2.09	0.71	0.09
REQUIRED PAGES	92	168.35	136.45	2.09	0.71	0.19
REQUIRED HOURS	92	0.99	0.78	2.09	0.71	0.09
UNREQD PAGES	92	51.99	100.71	2.09	0.71	0.09
UNREQD HOURS	92	0.52	0.48	2.09	0.71	0.03
ENGLISH HOURS	92	0.09	0.15	2.09	0.71	-0.12
MATH HOURS	92	0.21	0.30	2.09	0.71	-0.16
NAT SCI HOURS	92	0.15	0.24	2.09	0.71	-0.06
SOC SCI HOURS	92	0.48	0.59	2.09	0.71	0.22
HUMANITIES HRS	92	0.07	0.18	2.09	0.71	0.10
LITERATURE HRS	92	0.07	0.15	2.09	0.71	-0.02
MAG-NEWS HOURS	92	0.27	0.26	2.09	0.71	0.01
NOTES HOURS	92	0.17	0.38	2.09	0.71	0.05
ENGLISH PAGES	92	20.96	37.13	2.09	0.71	-0.09
MATH PAGES	92	23.91	36.42	2.09	0.71	-0.13
NAT SCI PAGES	92	22.32	34.45	2.09	0.71	-0.02
SOC SCI PAGES	92	89.08	114.24	2.09	0.71	0.20
HUMANITIES PGS	92	14.30	31.97	2.09	0.71	0.06
LITERATURE PGS	92	34.49	93.62	2.09	0.71	0.17

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 13

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	82	248.89	194.37	0.23	0.03	-0.01
TOTAL HOURS	82	1.48	0.80	0.23	0.03	-0.06
REQUIRED PAGES	82	186.24	157.30	0.23	0.03	-0.05
REQUIRED HOURS	82	1.06	0.71	0.23	0.03	-0.08
UNREQD PAGES	82	62.65	111.73	0.23	0.03	0.06
UNREQD HOURS	82	0.43	0.43	0.23	0.03	0.02
ENGLISH HOURS	82	0.21	0.28	0.23	0.03	-0.07
MATH HOURS	82	0.10	0.21	0.23	0.03	0.08
NAT SCI HOURS	82	0.26	0.37	0.23	0.03	0.08
SOC SCI HOURS	82	0.51	0.57	0.23	0.03	-0.09
HUMANITIES HRS	82	0.08	0.21	0.23	0.03	-0.11
LITERATURE HRS	82	0.09	0.22	0.23	0.03	0.04
MAG-NEWS HOURS	82	0.19	0.19	0.23	0.03	0.00
NOTES HOURS	82	0.04	0.10	0.23	0.03	-0.07
ENGLISH PAGES	82	49.67	81.34	0.23	0.03	-0.02
MATH PAGES	82	11.50	22.80	0.23	0.03	0.00
NAT SCI PAGES	82	41.83	73.35	0.23	0.03	0.06
SOC SCI PAGES	82	90.79	105.97	0.23	0.03	-0.07
HUMANITIES PGS	82	13.67	42.74	0.23	0.03	-0.09
LITERATURE PGS	82	41.46	90.94	0.23	0.03	0.07

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	85	249.46	191.22	2.07	0.58	-0.11
TOTAL HOURS	85	1.51	0.81	2.07	0.58	-0.09
REQUIRED PAGES	85	190.96	155.18	2.07	0.58	-0.08
REQUIRED HOURS	85	1.10	0.75	2.07	0.58	-0.09
UNREQD PAGES	85	58.49	108.92	2.07	0.58	-0.09
UNREQD HOURS	85	0.41	0.42	2.07	0.58	-0.00
ENGLISH HOURS	85	0.21	0.28	2.07	0.58	0.03
MATH HOURS	85	0.11	0.21	2.07	0.58	-0.06
NAT SCI HOURS	85	0.23	0.35	2.07	0.58	-0.02
SOC SCI HOURS	85	0.52	0.57	2.07	0.58	-0.03
HUMANITIES HRS	85	0.08	0.21	2.07	0.58	-0.10
LITERATURE HRS	85	0.09	0.22	2.07	0.58	-0.14
MAG-NEWS HOURS	85	0.20	0.19	2.07	0.58	-0.11
NOTES HOURS	85	0.06	0.14	2.07	0.58	0.11
ENGLISH PAGES	85	50.55	80.08	2.07	0.58	0.04
MATH PAGES	85	12.46	22.68	2.07	0.58	-0.06
NAT SCI PAGES	85	39.71	72.43	2.07	0.58	-0.05
SOC SCI PAGES	85	91.85	105.39	2.07	0.58	-0.03
HUMANITIES PGS	85	14.39	42.30	2.07	0.58	-0.02
LITERATURE PGS	85	40.47	89.54	2.07	0.58	-0.17

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 14

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	41	326.61	248.87	0.23	0.03	-0.05
TOTAL HOURS	41	2.10	1.15	0.23	0.03	0.01
REQUIRED PAGES	41	236.98	224.65	0.23	0.03	0.09
REQUIRED HOURS	41	1.36	1.23	0.23	0.03	0.02
UNREQD PAGES	41	89.63	159.58	0.23	0.03	-0.20
UNREQD HOURS	41	0.74	0.61	0.23	0.03	-0.01
ENGLISH HOURS	41	0.17	0.20	0.23	0.03	-0.13
MATH HOURS	41	0.14	0.27	0.23	0.03	0.12
NAT SCI HOURS	41	0.28	0.45	0.23	0.03	0.12
SOC SCI HOURS	41	0.72	0.76	0.23	0.03	-0.15
HUMANITIES HRS	41	0.17	0.33	0.23	0.03	-0.11
LITERATURE HRS	41	0.08	0.22	0.23	0.03	0.02
MAG-NEWS HOURS	41	0.19	0.24	0.23	0.03	0.38
NOTES HOURS	41	0.34	0.72	0.23	0.03	0.01
ENGLISH PAGES	41	42.93	77.65	0.23	0.03	0.00
MATH PAGES	41	30.10	66.90	0.23	0.03	0.11
NAT SCI PAGES	41	50.44	96.07	0.23	0.03	-0.06
SOC SCI PAGES	41	145.80	162.43	0.23	0.03	-0.06
HUMANITIES PGS	41	32.17	56.74	0.23	0.03	-0.05
LITERATURE PGS	41	25.17	86.11	0.23	0.03	-0.01

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	46	338.41	244.30	1.84	0.65	-0.22
TOTAL HOURS	46	2.05	1.13	1.84	0.65	0.02
REQUIRED PAGES	46	256.83	223.69	1.84	0.65	-0.22
REQUIRED HOURS	46	1.39	1.19	1.84	0.65	-0.13
UNREQD PAGES	46	81.59	152.59	1.84	0.65	-0.02
UNREQD HOURS	46	0.65	0.60	1.84	0.65	0.29
ENGLISH HOURS	46	0.12	0.17	1.84	0.65	0.01
MATH HOURS	46	0.13	0.25	1.84	0.65	0.00
NAT SCI HOURS	46	0.25	0.43	1.84	0.65	0.00
SOC SCI HOURS	46	0.77	0.74	1.84	0.65	-0.20
HUMANITIES HRS	46	0.16	0.32	1.84	0.65	-0.09
LITERATURE HRS	46	0.08	0.23	1.84	0.65	-0.03
MAG-NEWS HOURS	46	0.19	0.22	1.84	0.65	0.38
NOTES HOURS	46	0.33	0.69	1.84	0.65	0.17
ENGLISH PAGES	46	34.46	73.77	1.84	0.65	0.02
MATH PAGES	46	28.02	63.98	1.84	0.65	-0.10
NAT SCI PAGES	46	46.26	92.21	1.84	0.65	-0.06
SOC SCI PAGES	46	168.65	172.90	1.84	0.65	-0.20
HUMANITIES PGS	46	35.11	58.77	1.84	0.65	-0.21
LITERATURE PGS	46	25.91	83.68	1.84	0.65	0.04

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 15

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	41	244.76	354.27	0.23	0.04	0.06
TOTAL HOURS	41	1.43	1.04	0.23	0.04	0.07
REQUIRED PAGES	41	206.32	333.68	0.23	0.04	-0.01
REQUIRED HOURS	41	1.13	0.95	0.23	0.04	-0.03
UNREQD PAGES	41	38.44	72.88	0.23	0.04	0.31
UNREQD HOURS	41	0.31	0.30	0.23	0.04	0.36
ENGLISH HOURS	41	0.44	0.51	0.23	0.04	-0.03
MATH HOURS	41	0.21	0.27	0.23	0.04	0.06
NAT SCI HOURS	41	0.08	0.16	0.23	0.04	0.14
SOC SCI HOURS	41	0.36	0.48	0.23	0.04	0.02
HUMANITIES HRS	41	0.08	0.19	0.23	0.04	-0.24
LITERATURE HRS	41	0.08	0.17	0.23	0.04	0.24
MAG-NEWS HOURS	41	0.17	0.20	0.23	0.04	0.24
NOTES HOURS	41	0.00	0.01	0.23	0.04	-0.02
ENGLISH PAGES	41	83.10	156.85	0.23	0.04	-0.01
MATH PAGES	41	21.88	26.25	0.23	0.04	0.06
NAT SCI PAGES	41	11.54	20.19	0.23	0.04	0.08
SOC SCI PAGES	41	70.80	105.61	0.23	0.04	0.04
HUMANITIES PGS	41	30.00	99.19	0.23	0.04	-0.05
LITERATURE PGS	41	24.98	53.95	0.23	0.04	0.31

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	45	239.16	340.74	2.29	0.75	-0.21
TOTAL HOURS	45	1.44	1.03	2.29	0.75	0.10
REQUIRED PAGES	45	201.47	320.39	2.29	0.75	-0.20
REQUIRED HOURS	45	1.11	0.93	2.29	0.75	0.04
UNREQD PAGES	45	37.64	71.34	2.29	0.75	-0.10
UNREQD HOURS	45	0.32	0.36	2.29	0.75	0.18
ENGLISH HOURS	45	0.42	0.50	2.29	0.75	-0.14
MATH HOURS	45	0.21	0.27	2.29	0.75	0.07
NAT SCI HOURS	45	0.10	0.18	2.29	0.75	0.29
SOC SCI HOURS	45	0.35	0.47	2.29	0.75	0.17
HUMANITIES HRS	45	0.07	0.18	2.29	0.75	-0.05
LITERATURE HRS	45	0.10	0.21	2.29	0.75	-0.05
MAG-NEWS HOURS	45	0.18	0.20	2.29	0.75	0.23
NOTES HOURS	45	0.00	0.01	2.29	0.75	0.03
ENGLISH PAGES	45	79.78	150.39	2.29	0.75	-0.28
MATH PAGES	45	23.02	28.86	2.29	0.75	0.13
NAT SCI PAGES	45	14.02	23.27	2.29	0.75	0.14
SOC SCI PAGES	45	67.73	102.14	2.29	0.75	-0.10
HUMANITIES PGS	45	26.89	94.99	2.29	0.75	-0.30
LITERATURE PGS	45	25.47	53.87	2.29	0.75	-0.07

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 16

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	61	208.15	128.79	0.23	0.04	0.09
TOTAL HOURS	61	1.33	0.77	0.23	0.04	-0.04
REQUIRED PAGES	61	176.46	110.95	0.23	0.04	0.10
REQUIRED HOURS	61	1.09	0.70	0.23	0.04	-0.05
UNREQD PAGES	61	34.54	69.12	0.23	0.04	0.01
UNREQD HOURS	61	0.24	0.30	0.23	0.04	0.01
ENGLISH HOURS	61	0.43	0.33	0.23	0.04	-0.06
MATH HOURS	61	0.18	0.26	0.23	0.04	0.05
NAT SCI HOURS	61	0.16	0.25	0.23	0.04	-0.22
SOC SCI HOURS	61	0.28	0.35	0.23	0.04	0.01
HUMANITIES HRS	61	0.06	0.11	0.23	0.04	0.03
LITERATURE HRS	61	0.06	0.16	0.23	0.04	-0.04
MAG-NEWS HOURS	61	0.13	0.18	0.23	0.04	0.05
NOTES HOURS	61	0.02	0.12	0.23	0.04	0.14
ENGLISH PAGES	61	79.77	58.51	0.23	0.04	0.07
MATH PAGES	61	17.31	25.87	0.23	0.04	0.05
NAT SCI PAGES	61	23.41	34.64	0.23	0.04	-0.09
SOC SCI PAGES	61	52.64	66.01	0.23	0.04	0.09
HUMANITIES PGS	61	9.18	18.70	0.23	0.04	0.08
LITERATURE PGS	61	24.49	54.56	0.23	0.04	0.04

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	73	210.36	130.78	2.31	0.73	0.22
TOTAL HOURS	73	1.28	0.75	2.31	0.73	0.09
REQUIRED PAGES	73	172.21	110.37	2.31	0.73	0.13
REQUIRED HOURS	73	1.03	0.69	2.31	0.73	0.01
UNREQD PAGES	73	42.66	94.28	2.31	0.73	0.16
UNREQD HOURS	73	0.24	0.32	2.31	0.73	0.20
ENGLISH HOURS	73	0.43	0.38	2.31	0.73	0.02
MATH HOURS	73	0.16	0.24	2.31	0.73	0.02
NAT SCI HOURS	73	0.14	0.21	2.31	0.73	-0.25
SOC SCI HOURS	73	0.27	0.33	2.31	0.73	0.15
HUMANITIES HRS	73	0.05	0.11	2.31	0.73	0.29
LITERATURE HRS	73	0.07	0.18	2.31	0.73	0.08
MAG-NEWS HOURS	73	0.13	0.18	2.31	0.73	0.03
NOTES HOURS	73	0.02	0.11	2.31	0.73	0.09
ENGLISH PAGES	73	80.34	67.25	2.31	0.73	0.04
MATH PAGES	73	18.11	29.09	2.31	0.73	0.12
NAT SCI PAGES	73	21.92	31.92	2.31	0.73	-0.14
SOC SCI PAGES	73	52.00	62.75	2.31	0.73	0.26
HUMANITIES PGS	73	9.51	20.31	2.31	0.73	0.28
LITERATURE PGS	73	27.34	63.69	2.31	0.73	0.10

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 17

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	22	184.36	91.41	0.22	0.04	0.27
TOTAL HOURS	22	1.21	0.82	0.22	0.04	-0.14
REQUIRED PAGES	22	180.41	89.30	0.22	0.04	0.25
REQUIRED HOURS	22	1.01	0.66	0.22	0.04	-0.09
UNREQD PAGES	22	3.95	11.86	0.22	0.04	0.18
UNREQD HOURS	22	0.20	0.25	0.22	0.04	-0.21
ENGLISH HOURS	22	0.43	0.39	0.22	0.04	-0.19
MATH HOURS	22	0.10	0.20	0.22	0.04	0.20
NAT SCI HOURS	22	0.03	0.07	0.22	0.04	-0.14
SOC SCI HOURS	22	0.36	0.31	0.22	0.04	-0.07
HUMANITIES HRS	22	0.05	0.08	0.22	0.04	-0.16
LITERATURE HRS	22	0.03	0.11	0.22	0.04	0.09
MAG-NEWS HOURS	22	0.17	0.23	0.22	0.04	-0.30
NOTES HOURS	22	0.04	0.13	0.22	0.04	0.19
ENGLISH PAGES	22	77.41	66.66	0.22	0.04	0.07
MATH PAGES	22	16.18	33.17	0.22	0.04	0.29
NAT SCI PAGES	22	4.86	13.71	0.22	0.04	-0.07
SOC SCI PAGES	22	62.14	46.97	0.22	0.04	0.21
HUMANITIES PGS	22	12.59	22.06	0.22	0.04	-0.10
LITERATURE PGS	22	10.91	36.64	0.22	0.04	0.10

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	27	234.93	180.67	2.37	0.60	0.19
TOTAL HOURS	27	1.47	0.93	2.37	0.60	0.23
REQUIRED PAGES	27	209.11	125.43	2.37	0.60	0.27
REQUIRED HOURS	27	1.17	0.71	2.37	0.60	0.24
UNREQD PAGES	27	25.81	70.83	2.37	0.60	0.00
UNREQD HOURS	27	0.30	0.31	2.37	0.60	0.14
ENGLISH HOURS	27	0.58	0.50	2.37	0.60	0.07
MATH HOURS	27	0.13	0.23	2.37	0.60	0.12
NAT SCI HOURS	27	0.06	0.12	2.37	0.60	0.57
SOC SCI HOURS	27	0.39	0.32	2.37	0.60	0.03
HUMANITIES HRS	27	0.04	0.07	2.37	0.60	0.31
LITERATURE HRS	27	0.06	0.16	2.37	0.60	0.20
MAG-NEWS HOURS	27	0.18	0.23	2.37	0.60	0.16
NOTES HOURS	27	0.03	0.12	2.37	0.60	-0.10
ENGLISH PAGES	27	104.74	114.17	2.37	0.60	0.10
MATH PAGES	27	17.96	35.34	2.37	0.60	0.22
NAT SCI PAGES	27	7.19	15.73	2.37	0.60	0.52
SOC SCI PAGES	27	66.59	50.88	2.37	0.60	-0.08
HUMANITIES PGS	27	10.26	20.51	2.37	0.60	0.30
LITERATURE PGS	27	27.96	75.85	2.37	0.60	0.07

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 18

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	262.50	192.57	0.23	0.04	-0.07
TOTAL HOURS	26	1.71	1.00	0.23	0.04	0.05
REQUIRED PAGES	26	232.77	182.43	0.23	0.04	-0.22
REQUIRED HOURS	26	1.38	0.92	0.23	0.04	-0.05
UNREQD PAGES	26	37.92	81.54	0.23	0.04	0.49
UNREQD HOURS	26	0.33	0.29	0.23	0.04	0.34
ENGLISH HOURS	26	0.52	0.44	0.23	0.04	-0.54
MATH HOURS	26	0.12	0.23	0.23	0.04	0.28
NAT SCI HOURS	26	0.20	0.26	0.23	0.04	0.16
SOC SCI HOURS	26	0.31	0.45	0.23	0.04	0.23
HUMANITIES HRS	26	0.13	0.21	0.23	0.04	-0.21
LITERATURE HRS	26	0.05	0.11	0.23	0.04	0.16
MAG-NEWS HOURS	26	0.20	0.26	0.23	0.04	0.37
NOTES HOURS	26	0.17	0.35	0.23	0.04	-0.04
ENGLISH PAGES	26	115.04	121.86	0.23	0.04	-0.36
MATH PAGES	26	18.62	42.24	0.23	0.04	0.15
NAT SCI PAGES	26	28.35	34.75	0.23	0.04	-0.01
SOC SCI PAGES	26	54.12	68.16	0.23	0.04	0.23
HUMANITIES PGS	26	26.46	44.11	0.23	0.04	-0.20
LITERATURE PGS	26	23.04	58.39	0.23	0.04	0.39

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	32	255.37	188.57	2.24	0.62	-0.08
TOTAL HOURS	32	1.70	0.96	2.24	0.62	-0.07
REQUIRED PAGES	32	220.12	183.27	2.24	0.62	-0.14
REQUIRED HOURS	32	1.33	0.86	2.24	0.62	-0.07
UNREQD PAGES	32	41.91	81.31	2.24	0.62	0.33
UNREQD HOURS	32	0.37	0.39	2.24	0.62	-0.02
ENGLISH HOURS	32	0.49	0.42	2.24	0.62	-0.13
MATH HOURS	32	0.19	0.45	2.24	0.62	0.00
NAT SCI HOURS	32	0.19	0.25	2.24	0.62	0.13
SOC SCI HOURS	32	0.28	0.41	2.24	0.62	-0.00
HUMANITIES HRS	32	0.12	0.21	2.24	0.62	-0.11
LITERATURE HRS	32	0.06	0.11	2.24	0.62	0.11
MAG-NEWS HOURS	32	0.21	0.25	2.24	0.62	-0.09
NOTES HOURS	32	0.16	0.33	2.24	0.62	-0.09
ENGLISH PAGES	32	114.41	125.71	2.24	0.62	-0.21
MATH PAGES	32	23.34	51.35	2.24	0.62	0.14
NAT SCI PAGES	32	27.00	32.80	2.24	0.62	0.01
SOC SCI PAGES	32	46.22	63.88	2.24	0.62	0.01
HUMANITIES PGS	32	24.00	42.11	2.24	0.62	-0.05
LITERATURE PGS	32	22.94	54.41	2.24	0.62	0.19

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 19

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	61	323.49	188.79	0.23	0.03	-0.11
TOTAL HOURS	61	1.96	1.00	0.23	0.03	0.01
REQUIRED PAGES	61	269.84	189.70	0.23	0.03	-0.22
REQUIRED HOURS	61	1.46	0.82	0.23	0.03	-0.14
UNREQD PAGES	61	53.62	117.10	0.23	0.03	0.17
UNREQD HOURS	61	0.54	0.64	0.23	0.03	0.15
ENGLISH HOURS	61	0.41	0.38	0.23	0.03	-0.23
MATH HOURS	61	0.26	0.44	0.23	0.03	-0.02
NAT SCI HOURS	61	0.30	0.42	0.23	0.03	0.01
SOC SCI HOURS	61	0.51	0.51	0.23	0.03	-0.11
HUMANITIES HRS	61	0.06	0.14	0.23	0.03	0.09
LITERATURE HRS	61	0.06	0.20	0.23	0.03	0.23
MAG-NEWS HOURS	61	0.18	0.18	0.23	0.03	0.30
NOTES HOURS	61	0.21	0.30	0.23	0.03	0.06
ENGLISH PAGES	61	105.10	120.78	0.23	0.03	-0.24
MATH PAGES	61	27.28	59.83	0.23	0.03	-0.13
NAT SCI PAGES	61	48.38	72.79	0.23	0.03	0.06
SOC SCI PAGES	61	102.10	113.60	0.23	0.03	-0.14
HUMANITIES PGS	61	12.43	31.64	0.23	0.03	0.14
LITERATURE PGS	61	28.18	109.15	0.23	0.03	0.22

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	73	337.29	194.13	2.34	0.67	0.07
TOTAL HOURS	73	1.93	0.97	2.34	0.67	0.08
REQUIRED PAGES	73	284.19	191.61	2.34	0.67	0.05
REQUIRED HOURS	73	1.45	0.79	2.34	0.67	0.06
UNREQD PAGES	73	53.07	112.20	2.34	0.67	0.02
UNREQD HOURS	73	0.51	0.61	2.34	0.67	0.08
ENGLISH HOURS	73	0.42	0.39	2.34	0.67	0.11
MATH HOURS	73	0.26	0.44	2.34	0.67	-0.12
NAT SCI HOURS	73	0.29	0.40	2.34	0.67	0.13
SOC SCI HOURS	73	0.52	0.54	2.34	0.67	-0.02
HUMANITIES HRS	73	0.06	0.14	2.34	0.67	0.16
LITERATURE HRS	73	0.05	0.19	2.34	0.67	-0.09
MAG-NEWS HOURS	73	0.16	0.17	2.34	0.67	0.01
NOTES HOURS	73	0.19	0.30	2.34	0.67	0.20
ENGLISH PAGES	73	120.67	138.99	2.34	0.67	0.14
MATH PAGES	73	32.64	69.09	2.34	0.67	-0.26
NAT SCI PAGES	73	45.59	68.60	2.34	0.67	0.17
SOC SCI PAGES	73	103.38	116.92	2.34	0.67	-0.00
HUMANITIES PGS	73	10.90	29.27	2.34	0.67	0.23
LITERATURE PGS	73	24.07	100.25	2.34	0.67	-0.07

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 20

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	17	269.82	180.91	0.23	0.02	-0.06
TOTAL HOURS	17	1.67	1.07	0.23	0.02	0.30
REQUIRED PAGES	17	250.00	184.21	0.23	0.02	-0.03
REQUIRED HOURS	17	1.29	0.81	0.23	0.02	0.10
UNREQD PAGES	17	19.82	48.18	0.23	0.02	-0.11
UNREQD HOURS	17	0.38	0.59	0.23	0.02	0.40
ENGLISH HOURS	17	0.44	0.40	0.23	0.02	0.07
MATH HOURS	17	0.26	0.39	0.23	0.02	-0.10
NAT SCI HOURS	17	0.22	0.36	0.23	0.02	0.21
SOC SCI HOURS	17	0.40	0.40	0.23	0.02	0.09
HUMANITIES HRS	17	0.03	0.09	0.23	0.02	0.07
LITERATURE HRS	17	0.03	0.12	0.23	0.02	0.01
MAG-NEWS HOURS	17	0.10	0.16	0.23	0.02	0.12
NOTES HOURS	17	0.17	0.44	0.23	0.02	0.43
ENGLISH PAGES	17	120.24	137.68	0.23	0.02	-0.11
MATH PAGES	17	26.65	46.25	0.23	0.02	-0.08
NAT SCI PAGES	17	26.71	33.21	0.23	0.02	0.09
SOC SCI PAGES	17	75.06	82.83	0.23	0.02	0.03
HUMANITIES PGS	17	4.41	12.35	0.23	0.02	0.08
LITERATURE PGS	17	16.76	65.33	0.23	0.02	0.01

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	20	271.40	169.25	1.96	0.52	0.31
TOTAL HOURS	20	1.64	0.99	1.96	0.52	0.05
REQUIRED PAGES	20	254.55	172.54	1.96	0.52	0.31
REQUIRED HOURS	20	1.26	0.75	1.96	0.52	0.04
UNREQD PAGES	20	16.85	44.98	1.96	0.52	0.01
UNREQD HOURS	20	0.39	0.56	1.96	0.52	0.03
ENGLISH HOURS	20	0.46	0.37	1.96	0.52	0.10
MATH HOURS	20	0.25	0.37	1.96	0.52	0.21
NAT SCI HOURS	20	0.22	0.34	1.96	0.52	0.52
SOC SCI HOURS	20	0.36	0.39	1.96	0.52	-0.47
HUMANITIES HRS	20	0.03	0.09	1.96	0.52	-0.07
LITERATURE HRS	20	0.03	0.11	1.96	0.52	0.16
MAG-NEWS HOURS	20	0.11	0.16	1.96	0.52	-0.14
NOTES HOURS	20	0.19	0.43	1.96	0.52	-0.10
ENGLISH PAGES	20	125.70	128.91	1.96	0.52	0.38
MATH PAGES	20	25.60	43.08	1.96	0.52	0.39
NAT SCI PAGES	20	25.30	31.17	1.96	0.52	0.47
SOC SCI PAGES	20	76.40	89.21	1.96	0.52	-0.41
HUMANITIES PGS	20	4.15	11.50	1.96	0.52	-0.08
LITERATURE PGS	20	14.25	60.53	1.96	0.52	0.16

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 21

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	22	185.27	82.81	0.23	0.04	0.21
TOTAL HOURS	22	1.50	0.61	0.23	0.04	-0.21
REQUIRED PAGES	22	160.77	90.66	0.23	0.04	-0.02
REQUIRED HOURS	22	1.10	0.65	0.23	0.04	-0.36
UNREQD PAGES	22	24.50	44.49	0.23	0.04	0.43
UNREQD HOURS	22	0.40	0.35	0.23	0.04	0.30
ENGLISH HOURS	22	0.28	0.24	0.23	0.04	-0.33
MATH HOURS	22	0.21	0.48	0.23	0.04	0.24
NAT SCI HOURS	22	0.16	0.26	0.23	0.04	0.28
SOC SCI HOURS	22	0.39	0.34	0.23	0.04	-0.53
HUMANITIES HRS	22	0.10	0.21	0.23	0.04	-0.37
LITERATURE HRS	22	0.03	0.08	0.23	0.04	-0.04
MAG-NEWS HOURS	22	0.19	0.20	0.23	0.04	-0.03
NOTES HOURS	22	0.12	0.30	0.23	0.04	0.06
ENGLISH PAGES	22	52.64	45.64	0.23	0.04	-0.09
MATH PAGES	22	22.73	71.59	0.23	0.04	0.21
NAT SCI PAGES	22	23.86	41.32	0.23	0.04	0.32
SOC SCI PAGES	22	57.50	52.58	0.23	0.04	-0.31
HUMANITIES PGS	22	16.50	30.33	0.23	0.04	-0.08
LITERATURE PGS	22	12.05	36.14	0.23	0.04	0.33

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	28	219.96	157.81	2.33	0.83	-0.36
TOTAL HOURS	28	1.65	0.78	2.33	0.83	-0.19
REQUIRED PAGES	28	200.71	165.56	2.33	0.83	-0.40
REQUIRED HOURS	28	1.27	0.80	2.33	0.83	-0.28
UNREQD PAGES	28	19.25	40.70	2.33	0.83	0.21
UNREQD HOURS	28	0.38	0.33	2.33	0.83	0.23
ENGLISH HOURS	28	0.31	0.29	2.33	0.83	-0.24
MATH HOURS	28	0.32	0.52	2.33	0.83	-0.08
NAT SCI HOURS	28	0.16	0.26	2.33	0.83	-0.22
SOC SCI HOURS	28	0.38	0.33	2.33	0.83	-0.05
HUMANITIES HRS	28	0.08	0.19	2.33	0.83	-0.12
LITERATURE HRS	28	0.03	0.07	2.33	0.83	-0.23
MAG-NEWS HOURS	28	0.21	0.22	2.33	0.83	-0.08
NOTES HOURS	28	0.14	0.32	2.33	0.83	0.30
ENGLISH PAGES	28	73.54	113.00	2.33	0.83	-0.34
MATH PAGES	28	42.57	86.56	2.33	0.83	-0.23
NAT SCI PAGES	28	23.04	38.09	2.33	0.83	-0.12
SOC SCI PAGES	28	58.39	54.50	2.33	0.83	0.05
HUMANITIES PGS	28	12.96	27.73	2.33	0.83	0.06
LITERATURE PGS	28	9.46	32.41	2.33	0.83	0.05

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 22

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	21	270.86	166.72	0.23	0.03	0.01
TOTAL HOURS	21	1.43	0.79	0.23	0.03	0.11
REQUIRED PAGES	21	194.67	119.39	0.23	0.03	0.35
REQUIRED HOURS	21	1.02	0.63	0.23	0.03	0.32
UNREQD PAGES	21	73.81	125.76	0.23	0.03	-0.36
UNREQD HOURS	21	0.41	0.48	0.23	0.03	-0.23
ENGLISH HOURS	21	0.30	0.23	0.23	0.03	0.03
MATH HOURS	21	0.15	0.26	0.23	0.03	0.11
NAT SCI HOURS	21	0.09	0.19	0.23	0.03	-0.09
SOC SCI HOURS	21	0.55	0.54	0.23	0.03	0.04
HUMANITIES HRS	21	0.05	0.10	0.23	0.03	-0.01
LITERATURE HRS	21	0.07	0.13	0.23	0.03	-0.16
MAG-NEWS HOURS	21	0.16	0.16	0.23	0.03	-0.01
NOTES HOURS	21	0.07	0.15	0.23	0.03	0.48
ENGLISH PAGES	21	74.14	80.25	0.23	0.03	-0.19
MATH PAGES	21	10.19	18.03	0.23	0.03	0.13
NAT SCI PAGES	21	11.33	23.96	0.23	0.03	-0.09
SOC SCI PAGES	21	115.52	132.45	0.23	0.03	0.06
HUMANITIES PGS	21	10.90	23.28	0.23	0.03	-0.07
LITERATURE PGS	21	32.33	67.30	0.23	0.03	-0.25

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	259.54	160.96	2.39	0.48	0.12
TOTAL HOURS	26	1.46	0.84	2.39	0.48	-0.02
REQUIRED PAGES	26	197.27	120.25	2.39	0.48	0.18
REQUIRED HOURS	26	1.04	0.77	2.39	0.48	0.13
UNREQD PAGES	26	60.38	116.37	2.39	0.48	-0.04
UNREQD HOURS	26	0.42	0.44	2.39	0.48	-0.26
ENGLISH HOURS	26	0.27	0.23	2.39	0.48	0.04
MATH HOURS	26	0.13	0.25	2.39	0.48	-0.08
NAT SCI HOURS	26	0.10	0.20	2.39	0.48	-0.06
SOC SCI HOURS	26	0.51	0.52	2.39	0.48	-0.06
HUMANITIES HRS	26	0.11	0.28	2.39	0.48	0.10
LITERATURE HRS	26	0.06	0.12	2.39	0.48	0.17
MAG-NEWS HOURS	26	0.19	0.19	2.39	0.48	-0.20
NOTES HOURS	26	0.08	0.17	2.39	0.48	0.19
ENGLISH PAGES	26	63.73	75.91	2.39	0.48	-0.18
MATH PAGES	26	9.73	17.61	2.39	0.48	-0.16
NAT SCI PAGES	26	11.42	22.50	2.39	0.48	-0.16
SOC SCI PAGES	26	105.65	125.20	2.39	0.48	0.05
HUMANITIES PGS	26	27.31	79.97	2.39	0.48	0.13
LITERATURE PGS	26	28.42	61.92	2.39	0.48	0.02

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 23

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	37	189.00	141.68	0.23	0.03	0.02
TOTAL HOURS	37	1.59	0.81	0.23	0.03	0.12
REQUIRED PAGES	37	156.78	112.20	0.23	0.03	0.17
REQUIRED HOURS	37	1.23	0.72	0.23	0.03	0.23
UNREQD PAGES	37	32.22	98.93	0.23	0.03	-0.16
UNREQD HOURS	37	0.36	0.44	0.23	0.03	-0.16
ENGLISH HOURS	37	0.24	0.24	0.23	0.03	-0.37
MATH HOURS	37	0.26	0.37	0.23	0.03	0.45
NAT SCI HOURS	37	0.22	0.30	0.23	0.03	0.32
SOC SCI HOURS	37	0.40	0.46	0.23	0.03	-0.01
HUMANITIES HRS	37	0.07	0.21	0.23	0.03	0.02
LITERATURE HRS	37	0.09	0.29	0.23	0.03	-0.17
MAG-NEWS HOURS	37	0.18	0.20	0.23	0.03	0.04
NOTES HOURS	37	0.11	0.21	0.23	0.03	-0.20
ENGLISH PAGES	37	35.97	48.76	0.23	0.03	-0.20
MATH PAGES	37	19.16	23.32	0.23	0.03	0.46
NAT SCI PAGES	37	33.08	55.43	0.23	0.03	0.24
SOC SCI PAGES	37	64.70	76.23	0.23	0.03	0.06
HUMANITIES PGS	37	9.03	28.32	0.23	0.03	-0.01
LITERATURE PGS	37	27.05	99.06	0.23	0.03	-0.16

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	42	200.86	149.34	2.46	0.71	-0.09
TOTAL HOURS	42	1.60	0.80	2.46	0.71	0.09
REQUIRED PAGES	42	163.76	117.74	2.46	0.71	0.08
REQUIRED HOURS	42	1.24	0.70	2.46	0.71	0.23
UNREQD PAGES	42	37.10	105.35	2.46	0.71	-0.22
UNREQD HOURS	42	0.35	0.42	2.46	0.71	-0.21
ENGLISH HOURS	42	0.24	0.24	2.46	0.71	-0.15
MATH HOURS	42	0.25	0.36	2.46	0.71	0.26
NAT SCI HOURS	42	0.21	0.29	2.46	0.71	0.25
SOC SCI HOURS	42	0.43	0.47	2.46	0.71	-0.08
HUMANITIES HRS	42	0.08	0.23	2.46	0.71	0.05
LITERATURE HRS	42	0.10	0.30	2.46	0.71	-0.20
MAG-NEWS HOURS	42	0.17	0.19	2.46	0.71	-0.12
NOTES HOURS	42	0.10	0.20	2.46	0.71	0.26
ENGLISH PAGES	42	37.74	55.45	2.46	0.71	-0.11
MATH PAGES	42	17.81	22.53	2.46	0.71	0.03
NAT SCI PAGES	42	29.86	52.93	2.46	0.71	0.31
SOC SCI PAGES	42	71.86	83.16	2.46	0.71	-0.07
HUMANITIES PGS	42	11.17	32.98	2.46	0.71	0.10
LITERATURE PGS	42	32.43	105.70	2.46	0.71	-0.21

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 24

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	30	224.47	228.90	0.22	0.04	0.33
TOTAL HOURS	30	1.44	0.92	0.22	0.04	0.13
REQUIRED PAGES	30	177.77	168.40	0.22	0.04	0.13
REQUIRED HOURS	30	0.95	0.71	0.22	0.04	-0.21
UNREQD PAGES	30	46.70	118.26	0.22	0.04	0.46
UNREQD HOURS	30	0.48	0.65	0.22	0.04	0.42
ENGLISH HOURS	30	0.18	0.23	0.22	0.04	-0.38
MATH HOURS	30	0.27	0.44	0.22	0.04	0.04
NAT SCI HOURS	30	0.07	0.22	0.22	0.04	-0.25
SOC SCI HOURS	30	0.37	0.41	0.22	0.04	-0.06
HUMANITIES HRS	30	0.05	0.10	0.22	0.04	-0.29
LITERATURE HRS	30	0.15	0.51	0.22	0.04	0.35
MAG-NEWS HOURS	30	0.24	0.33	0.22	0.04	0.38
NOTES HOURS	30	0.12	0.26	0.22	0.04	-0.02
ENGLISH PAGES	30	37.53	72.50	0.22	0.04	-0.19
MATH PAGES	30	27.97	55.25	0.22	0.04	0.09
NAT SCI PAGES	30	12.93	47.82	0.22	0.04	-0.03
SOC SCI PAGES	30	87.67	142.09	0.22	0.04	0.21
HUMANITIES PGS	30	16.43	45.35	0.22	0.04	0.09
LITERATURE PGS	30	42.27	131.96	0.22	0.04	0.39

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	36	220.61	217.22	2.18	0.55	0.36
TOTAL HOURS	36	1.51	0.96	2.18	0.55	0.28
REQUIRED PAGES	36	181.69	164.80	2.18	0.55	0.35
REQUIRED HOURS	36	1.01	0.77	2.18	0.55	0.23
UNREQD PAGES	36	38.92	109.35	2.18	0.55	0.19
UNREQD HOURS	36	0.50	0.62	2.18	0.55	0.15
ENGLISH HOURS	36	0.24	0.37	2.18	0.55	0.27
MATH HOURS	36	0.23	0.41	2.18	0.55	-0.12
NAT SCI HOURS	36	0.09	0.23	2.18	0.55	-0.15
SOC SCI HOURS	36	0.36	0.41	2.18	0.55	0.28
HUMANITIES HRS	36	0.05	0.10	2.18	0.55	-0.09
LITERATURE HRS	36	0.12	0.47	2.18	0.55	0.26
MAG-NEWS HOURS	36	0.26	0.32	2.18	0.55	0.12
NOTES HOURS	36	0.14	0.29	2.18	0.55	-0.03
ENGLISH PAGES	36	45.25	80.12	2.18	0.55	0.41
MATH PAGES	36	25.06	51.75	2.18	0.55	0.01
NAT SCI PAGES	36	16.61	48.82	2.18	0.55	-0.10
SOC SCI PAGES	36	84.08	131.82	2.18	0.55	0.19
HUMANITIES PGS	36	14.67	41.82	2.18	0.55	-0.01
LITERATURE PGS	36	35.22	121.48	2.18	0.55	0.22

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 25

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	27	211.78	174.53	0.23	0.03	-0.06
TOTAL HOURS	27	1.52	1.03	0.23	0.03	-0.17
REQUIRED PAGES	27	184.30	172.75	0.23	0.03	-0.22
REQUIRED HOURS	27	1.21	0.89	0.23	0.03	-0.27
UNREQD PAGES	27	27.85	80.15	0.23	0.03	0.35
UNREQD HOURS	27	0.31	0.28	0.23	0.03	0.24
ENGLISH HOURS	27	0.37	0.38	0.23	0.03	-0.17
MATH HOURS	27	0.32	0.43	0.23	0.03	-0.32
NAT SCI HOURS	27	0.15	0.36	0.23	0.03	0.05
SOC SCI HOURS	27	0.31	0.49	0.23	0.03	-0.20
HUMANITIES HRS	27	0.11	0.27	0.23	0.03	0.12
LITERATURE HRS	27	0.05	0.19	0.23	0.03	0.35
MAG-NEWS HOURS	27	0.18	0.15	0.23	0.03	0.10
NOTES HOURS	27	0.04	0.08	0.23	0.03	-0.09
ENGLISH PAGES	27	76.41	114.89	0.23	0.03	-0.11
MATH PAGES	27	23.30	36.77	0.23	0.03	-0.43
NAT SCI PAGES	27	22.33	58.34	0.23	0.03	0.13
SOC SCI PAGES	27	58.07	96.83	0.23	0.03	-0.18
HUMANITIES PGS	27	10.93	33.44	0.23	0.03	0.05
LITERATURE PGS	27	20.74	78.94	0.23	0.03	0.33

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	35	233.09	174.24	2.33	0.59	0.17
TOTAL HOURS	35	1.63	0.96	2.33	0.59	0.07
REQUIRED PAGES	35	201.23	173.18	2.33	0.59	0.19
REQUIRED HOURS	35	1.27	0.81	2.33	0.59	0.08
UNREQD PAGES	35	32.14	79.75	2.33	0.59	-0.04
UNREQD HOURS	35	0.36	0.28	2.33	0.59	-0.00
ENGLISH HOURS	35	0.36	0.38	2.33	0.59	-0.08
MATH HOURS	35	0.29	0.39	2.33	0.59	-0.16
NAT SCI HOURS	35	0.18	0.34	2.33	0.59	0.34
SOC SCI HOURS	35	0.32	0.45	2.33	0.59	0.08
HUMANITIES HRS	35	0.12	0.26	2.33	0.59	0.15
LITERATURE HRS	35	0.05	0.19	2.33	0.59	-0.04
MAG-NEWS HOURS	35	0.20	0.18	2.33	0.59	0.16
NOTES HOURS	35	0.10	0.22	2.33	0.59	-0.28
ENGLISH PAGES	35	80.03	114.40	2.33	0.59	0.02
MATH PAGES	35	24.23	35.62	2.33	0.59	-0.08
NAT SCI PAGES	35	27.03	54.62	2.33	0.59	0.32
SOC SCI PAGES	35	63.60	95.86	2.33	0.59	0.18
HUMANITIES PGS	35	15.34	36.50	2.33	0.59	-0.03
LITERATURE PGS	35	22.86	77.91	2.33	0.59	-0.03

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 26

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	28	290.21	313.09	0.24	0.04	0.08
TOTAL HOURS	28	1.56	0.86	0.24	0.04	0.01
REQUIRED PAGES	28	236.29	322.68	0.24	0.04	0.05
REQUIRED HOURS	28	0.93	0.77	0.24	0.04	-0.14
UNREQD PAGES	28	53.93	81.09	0.24	0.04	0.13
UNREQD HOURS	28	0.63	0.55	0.24	0.04	0.20
ENGLISH HOURS	28	0.27	0.25	0.24	0.04	-0.04
MATH HOURS	28	0.16	0.29	0.24	0.04	-0.12
NAT SCI HOURS	28	0.17	0.30	0.24	0.04	0.05
SOC SCI HOURS	28	0.37	0.46	0.24	0.04	-0.29
HUMANITIES HRS	28	0.06	0.17	0.24	0.04	0.23
LITERATURE HRS	28	0.06	0.15	0.24	0.04	0.22
MAG-NEWS HOURS	28	0.35	0.39	0.24	0.04	0.32
NOTES HOURS	28	0.11	0.19	0.24	0.04	-0.15
ENGLISH PAGES	28	98.96	156.33	0.24	0.04	0.12
MATH PAGES	28	18.11	30.83	0.24	0.04	-0.04
NAT SCI PAGES	28	24.89	46.97	0.24	0.04	0.11
SOC SCI PAGES	28	103.68	166.72	0.24	0.04	-0.01
HUMANITIES PGS	28	18.61	51.16	0.24	0.04	0.42
LITERATURE PGS	28	33.68	97.72	0.24	0.04	-0.02

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	38	312.74	333.87	2.33	0.80	-0.36
TOTAL HOURS	38	1.56	0.93	2.33	0.80	0.16
REQUIRED PAGES	38	241.24	296.52	2.33	0.80	-0.37
REQUIRED HOURS	38	0.98	0.79	2.33	0.80	0.03
UNREQD PAGES	38	71.50	140.97	2.33	0.80	-0.07
UNREQD HOURS	38	0.59	0.58	2.33	0.80	0.22
ENGLISH HOURS	38	0.25	0.26	2.33	0.80	0.10
MATH HOURS	38	0.19	0.32	2.33	0.80	-0.01
NAT SCI HOURS	38	0.16	0.30	2.33	0.80	0.11
SOC SCI HOURS	38	0.40	0.45	2.33	0.80	0.07
HUMANITIES HRS	38	0.05	0.15	2.33	0.80	-0.01
LITERATURE HRS	38	0.09	0.21	2.33	0.80	-0.22
MAG-NEWS HOURS	38	0.32	0.36	2.33	0.80	0.31
NOTES HOURS	38	0.11	0.20	2.33	0.80	0.01
ENGLISH PAGES	38	87.32	140.79	2.33	0.80	-0.24
MATH PAGES	38	19.00	28.85	2.33	0.80	-0.04
NAT SCI PAGES	38	29.00	72.45	2.33	0.80	0.10
SOC SCI PAGES	38	112.18	156.13	2.33	0.80	-0.27
HUMANITIES PGS	38	14.34	44.64	2.33	0.80	0.03
LITERATURE PGS	38	56.58	150.56	2.33	0.80	-0.32

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 27

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	17	165.53	105.53	0.24	0.03	0.38
TOTAL HOURS	17	1.28	0.59	0.24	0.03	-0.37
REQUIRED PAGES	17	128.12	93.52	0.24	0.03	0.03
REQUIRED HOURS	17	0.88	0.58	0.24	0.03	-0.46
UNREQD PAGES	17	37.41	98.43	0.24	0.03	0.38
UNREQD HOURS	17	0.39	0.33	0.24	0.03	0.17
ENGLISH HOURS	17	0.27	0.35	0.24	0.03	-0.43
MATH HOURS	17	0.14	0.16	0.24	0.03	0.19
NAT SCI HOURS	17	0.12	0.26	0.24	0.03	0.04
SOC SCI HOURS	17	0.32	0.45	0.24	0.03	-0.17
HUMANITIES HRS	17	0.06	0.10	0.24	0.03	0.28
LITERATURE HRS	17	0.03	0.09	0.24	0.03	0.33
MAG-NEWS HOURS	17	0.27	0.23	0.24	0.03	-0.43
NOTES HOURS	17	0.03	0.07	0.24	0.03	0.08
ENGLISH PAGES	17	44.53	50.06	0.24	0.03	-0.05
MATH PAGES	17	13.00	16.41	0.24	0.03	0.13
NAT SCI PAGES	17	10.29	23.81	0.24	0.03	0.18
SOC SCI PAGES	17	63.82	84.13	0.24	0.03	-0.09
HUMANITIES PGS	17	10.82	23.89	0.24	0.03	0.50
LITERATURE PGS	17	23.06	78.51	0.24	0.03	0.40

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	21	162.10	100.95	2.23	0.58	0.08
TOTAL HOURS	21	1.23	0.58	2.23	0.58	0.40
REQUIRED PAGES	21	131.14	91.49	2.23	0.58	-0.38
REQUIRED HOURS	21	0.84	0.55	2.23	0.58	0.14
UNREQD PAGES	21	30.95	89.59	2.23	0.58	0.47
UNREQD HOURS	21	0.38	0.33	2.23	0.58	0.46
ENGLISH HOURS	21	0.27	0.33	2.23	0.58	-0.14
MATH HOURS	21	0.15	0.18	2.23	0.58	0.16
NAT SCI HOURS	21	0.09	0.24	2.23	0.58	0.55
SOC SCI HOURS	21	0.28	0.42	2.23	0.58	0.12
HUMANITIES HRS	21	0.06	0.10	2.23	0.58	-0.21
LITERATURE HRS	21	0.03	0.08	2.23	0.58	0.55
MAG-NEWS HOURS	21	0.27	0.24	2.23	0.58	0.04
NOTES HOURS	21	0.04	0.08	2.23	0.58	-0.11
ENGLISH PAGES	21	53.62	63.05	2.23	0.58	-0.49
MATH PAGES	21	13.95	16.01	2.23	0.58	0.05
NAT SCI PAGES	21	8.33	21.80	2.23	0.58	0.58
SOC SCI PAGES	21	53.81	78.67	2.23	0.58	0.07
HUMANITIES PGS	21	13.71	27.64	2.23	0.58	-0.44
LITERATURE PGS	21	18.67	71.22	2.23	0.58	0.44

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 28

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	9	417.11	235.86	0.22	0.03	0.45
TOTAL HOURS	9	2.24	0.88	0.22	0.03	0.41
REQUIRED PAGES	9	342.44	236.03	0.22	0.03	0.31
REQUIRED HOURS	9	1.80	1.06	0.22	0.03	0.29
UNREQD PAGES	9	74.67	120.71	0.22	0.03	0.27
UNREQD HOURS	9	0.44	0.55	0.22	0.03	0.10
ENGLISH HOURS	9	0.24	0.42	0.22	0.03	-0.53
MATH HOURS	9	0.38	0.59	0.22	0.03	0.38
NAT SCI HOURS	9	0.10	0.23	0.22	0.03	0.80
SOC SCI HOURS	9	0.72	0.36	0.22	0.03	-0.67
HUMANITIES HRS	9	0.15	0.25	0.22	0.03	0.18
LITERATURE HRS	9	0.09	0.19	0.22	0.03	0.81
MAG-NEWS HOURS	9	0.11	0.13	0.22	0.03	0.89
NOTES HOURS	9	0.44	0.90	0.22	0.03	0.10
ENGLISH PAGES	9	46.22	69.05	0.22	0.03	-0.50
MATH PAGES	9	74.44	115.86	0.22	0.03	0.52
NAT SCI PAGES	9	26.11	63.93	0.22	0.03	0.82
SOC SCI PAGES	9	187.89	187.61	0.22	0.03	-0.35
HUMANITIES PGS	9	43.33	74.24	0.22	0.03	0.19
LITERATURE PGS	9	39.11	93.65	0.22	0.03	0.84

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	12	394.92	211.44	1.94	0.49	-0.25
TOTAL HOURS	12	2.06	0.83	1.94	0.49	0.04
REQUIRED PAGES	12	332.67	209.87	1.94	0.49	-0.12
REQUIRED HOURS	12	1.65	0.96	1.94	0.49	0.15
UNREQD PAGES	12	62.25	108.18	1.94	0.49	-0.24
UNREQD HOURS	12	0.41	0.49	1.94	0.49	-0.23
ENGLISH HOURS	12	0.25	0.39	1.94	0.49	-0.08
MATH HOURS	12	0.29	0.54	1.94	0.49	-0.29
NAT SCI HOURS	12	0.07	0.20	1.94	0.49	-0.14
SOC SCI HOURS	12	0.78	0.34	1.94	0.49	0.25
HUMANITIES HRS	12	0.11	0.23	1.94	0.49	0.46
LITERATURE HRS	12	0.08	0.17	1.94	0.49	-0.06
MAG-NEWS HOURS	12	0.12	0.12	1.94	0.49	0.19
NOTES HOURS	12	0.36	0.80	1.94	0.49	0.06
ENGLISH PAGES	12	43.33	63.08	1.94	0.49	-0.09
MATH PAGES	12	55.83	105.39	1.94	0.49	-0.28
NAT SCI PAGES	12	19.58	56.51	1.94	0.49	-0.14
SOC SCI PAGES	12	208.08	168.13	1.94	0.49	-0.20
HUMANITIES PGS	12	32.50	66.97	1.94	0.49	0.45
LITERATURE PGS	12	35.58	83.23	1.94	0.49	-0.08

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 1

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	74	238.61	228.61	0.22	0.04	0.09
TOTAL HOURS	74	1.26	0.86	0.22	0.04	-0.00
REQUIRED PAGES	74	176.81	119.37	0.22	0.04	0.13
REQUIRED HOURS	74	0.99	0.71	0.22	0.04	0.01
UNREQD PAGES	74	61.72	151.42	0.22	0.04	0.04
UNREQD HOURS	74	0.27	0.36	0.22	0.04	-0.03
ENGLISH HOURS	74	0.28	0.26	0.22	0.04	-0.13
MATH HOURS	74	0.16	0.25	0.22	0.04	0.12
NAT SCI HOURS	74	0.17	0.23	0.22	0.04	-0.04
SOC SCI HOURS	74	0.32	0.33	0.22	0.04	-0.10
HUMANITIES HRS	74	0.12	0.28	0.22	0.04	-0.02
LITERATURE HRS	74	0.12	0.30	0.22	0.04	0.01
MAG-NEWS HOURS	74	0.13	0.17	0.22	0.04	0.04
NOTES HOURS	74	0.02	0.08	0.22	0.04	0.10
ENGLISH PAGES	74	59.55	51.79	0.22	0.04	0.06
MATH PAGES	74	25.41	54.11	0.22	0.04	0.21
NAT SCI PAGES	74	26.28	35.76	0.22	0.04	0.10
SOC SCI PAGES	74	54.49	53.29	0.22	0.04	0.08
HUMANITIES PGS	74	23.43	57.46	0.22	0.04	0.06
LITERATURE PGS	74	55.05	153.61	0.22	0.04	0.00

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	74	238.61	228.61	2.04	0.65	-0.09
TOTAL HOURS	74	1.26	0.86	2.04	0.65	-0.00
REQUIRED PAGES	74	176.81	119.37	2.04	0.65	0.03
REQUIRED HOURS	74	0.99	0.71	2.04	0.65	-0.00
UNREQD PAGES	74	61.72	151.42	2.04	0.65	-0.16
UNREQD HOURS	74	0.27	0.36	2.04	0.65	-0.00
ENGLISH HOURS	74	0.28	0.26	2.04	0.65	0.00
MATH HOURS	74	0.16	0.25	2.04	0.65	0.19
NAT SCI HOURS	74	0.17	0.23	2.04	0.65	0.12
SOC SCI HOURS	74	0.32	0.33	2.04	0.65	-0.03
HUMANITIES HRS	74	0.12	0.28	2.04	0.65	-0.20
LITERATURE HRS	74	0.12	0.30	2.04	0.65	-0.20
MAG-NEWS HOURS	74	0.13	0.17	2.04	0.65	0.15
NOTES HOURS	74	0.02	0.08	2.04	0.65	-0.01
ENGLISH PAGES	74	59.55	51.79	2.04	0.65	0.17
MATH PAGES	74	25.41	54.11	2.04	0.65	0.03
NAT SCI PAGES	74	26.28	35.76	2.04	0.65	0.10
SOC SCI PAGES	74	54.49	53.29	2.04	0.65	-0.03
HUMANITIES PGS	74	23.43	57.46	2.04	0.65	-0.11
LITERATURE PGS	74	55.05	153.61	2.04	0.65	-0.23

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 2

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	95	239.59	167.08	0.24	0.04	0.14
TOTAL HOURS	95	1.26	0.67	0.24	0.04	-0.10
REQUIRED PAGES	95	162.98	95.93	0.24	0.04	0.03
REQUIRED HOURS	95	0.87	0.50	0.24	0.04	-0.07
UNREQD PAGES	95	80.01	138.54	0.24	0.04	0.18
UNREQD HOURS	95	0.40	0.42	0.24	0.04	-0.09
ENGLISH HOURS	95	0.23	0.19	0.24	0.04	-0.12
MATH HOURS	95	0.14	0.21	0.24	0.04	-0.09
NAT SCI HOURS	95	0.14	0.21	0.24	0.04	0.06
SOC SCI HOURS	95	0.36	0.38	0.24	0.04	-0.11
HUMANITIES HRS	95	0.06	0.12	0.24	0.04	-0.00
LITERATURE HRS	95	0.11	0.22	0.24	0.04	0.22
MAG-NEWS HOURS	95	0.19	0.23	0.24	0.04	-0.02
NOTES HOURS	95	0.04	0.14	0.24	0.04	-0.29
ENGLISH PAGES	95	60.22	75.47	0.24	0.04	0.05
MATH PAGES	95	21.24	36.20	0.24	0.04	-0.01
NAT SCI PAGES	95	18.86	28.73	0.24	0.04	0.11
SOC SCI PAGES	95	67.52	78.01	0.24	0.04	-0.06
HUMANITIES PGS	95	12.95	28.85	0.24	0.04	0.03
LITERATURE PGS	95	65.74	145.70	0.24	0.04	0.17

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	95	239.59	167.08	2.25	0.67	-0.17
TOTAL HOURS	95	1.26	0.67	2.25	0.67	-0.15
REQUIRED PAGES	95	162.98	95.93	2.25	0.67	-0.04
REQUIRED HOURS	95	0.87	0.50	2.25	0.67	-0.07
UNREQD PAGES	95	80.01	138.54	2.25	0.67	-0.14
UNREQD HOURS	95	0.40	0.42	2.25	0.67	-0.18
ENGLISH HOURS	95	0.23	0.19	2.25	0.67	0.12
MATH HOURS	95	0.14	0.21	2.25	0.67	-0.19
NAT SCI HOURS	95	0.14	0.21	2.25	0.67	0.07
SOC SCI HOURS	95	0.36	0.38	2.25	0.67	-0.09
HUMANITIES HRS	95	0.06	0.12	2.25	0.67	-0.13
LITERATURE HRS	95	0.11	0.22	2.25	0.67	-0.11
MAG-NEWS HOURS	95	0.19	0.23	2.25	0.67	0.06
NOTES HOURS	95	0.04	0.14	2.25	0.67	-0.01
ENGLISH PAGES	95	60.22	75.47	2.25	0.67	0.16
MATH PAGES	95	21.24	36.20	2.25	0.67	-0.07
NAT SCI PAGES	95	18.86	28.73	2.25	0.67	0.09
SOC SCI PAGES	95	67.52	78.01	2.25	0.67	-0.12
HUMANITIES PGS	95	12.95	28.85	2.25	0.67	-0.04
LITERATURE PGS	95	65.74	145.70	2.25	0.67	-0.18

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 3

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	72	174.83	121.55	0.23	0.04	-0.01
TOTAL HOURS	72	1.08	0.66	0.23	0.04	-0.20
REQUIRED PAGES	72	136.56	83.87	0.23	0.04	-0.09
REQUIRED HOURS	72	0.76	0.56	0.23	0.04	-0.26
UNREQD PAGES	72	40.61	72.89	0.23	0.04	0.10
UNREQD HOURS	72	0.29	0.30	0.23	0.04	0.01
ENGLISH HOURS	72	0.19	0.17	0.23	0.04	0.12
MATH HOURS	72	0.12	0.19	0.23	0.04	-0.07
NAT SCI HOURS	72	0.16	0.26	0.23	0.04	-0.17
SOC SCI HOURS	72	0.27	0.36	0.23	0.04	-0.23
HUMANITIES HRS	72	0.06	0.12	0.23	0.04	-0.04
LITERATURE HRS	72	0.07	0.15	0.23	0.04	-0.01
MAG-NEWS HOURS	72	0.16	0.20	0.23	0.04	-0.01
NOTES HOURS	72	0.04	0.09	0.23	0.04	-0.04
ENGLISH PAGES	72	48.67	41.99	0.23	0.04	0.10
MATH PAGES	72	14.81	22.83	0.23	0.04	0.14
NAT SCI PAGES	72	20.28	34.04	0.23	0.04	-0.07
SOC SCI PAGES	72	51.64	68.02	0.23	0.04	-0.14
HUMANITIES PGS	72	10.93	22.17	0.23	0.04	-0.04
LITERATURE PGS	72	29.11	69.14	0.23	0.04	0.06

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	72	174.83	121.55	2.24	0.66	0.04
TOTAL HOURS	72	1.08	0.66	2.24	0.66	-0.05
REQUIRED PAGES	72	136.56	83.87	2.24	0.66	-0.06
REQUIRED HOURS	72	0.76	0.56	2.24	0.66	-0.03
UNREQD PAGES	72	40.61	72.89	2.24	0.66	0.18
UNREQD HOURS	72	0.29	0.30	2.24	0.66	0.05
ENGLISH HOURS	72	0.19	0.17	2.24	0.66	0.11
MATH HOURS	72	0.12	0.19	2.24	0.66	0.01
NAT SCI HOURS	72	0.16	0.26	2.24	0.66	-0.07
SOC SCI HOURS	72	0.27	0.36	2.24	0.66	-0.18
HUMANITIES HRS	72	0.06	0.12	2.24	0.66	0.09
LITERATURE HRS	72	0.07	0.15	2.24	0.66	0.11
MAG-NEWS HOURS	72	0.16	0.20	2.24	0.66	0.01
NOTES HOURS	72	0.04	0.09	2.24	0.66	0.02
ENGLISH PAGES	72	48.67	41.99	2.24	0.66	0.10
MATH PAGES	72	14.81	22.83	2.24	0.66	0.03
NAT SCI PAGES	72	20.28	34.04	2.24	0.66	-0.05
SOC SCI PAGES	72	51.64	68.02	2.24	0.66	-0.13
HUMANITIES PGS	72	10.93	22.17	2.24	0.66	0.02
LITERATURE PGS	72	29.11	69.14	2.24	0.66	0.16

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 4

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	53	236.45	236.27	0.23	0.04	0.11
TOTAL HOURS	53	1.34	0.74	0.23	0.04	0.15
REQUIRED PAGES	53	223.00	367.24	0.23	0.04	0.10
REQUIRED HOURS	53	0.93	0.53	0.23	0.04	-0.00
UNREQD PAGES	53	60.77	91.61	0.23	0.04	0.24
UNREQD HOURS	53	0.41	0.46	0.23	0.04	0.23
ENGLISH HOURS	53	0.19	0.17	0.23	0.04	-0.04
MATH HOURS	53	0.20	0.31	0.23	0.04	0.21
NAT SCI HOURS	53	0.19	0.28	0.23	0.04	0.03
SOC SCI HOURS	53	0.29	0.41	0.23	0.04	-0.07
HUMANITIES HRS	53	0.12	0.22	0.23	0.04	-0.13
LITERATURE HRS	53	0.08	0.14	0.23	0.04	0.41
MAG-NEWS HOURS	53	0.17	0.20	0.23	0.04	0.14
NOTES HOURS	53	0.10	0.23	0.23	0.04	0.03
ENGLISH PAGES	53	42.34	47.48	0.23	0.04	0.07
MATH PAGES	53	23.36	37.73	0.23	0.04	0.07
NAT SCI PAGES	53	38.96	67.67	0.23	0.04	0.00
SOC SCI PAGES	53	69.53	123.55	0.23	0.04	-0.01
HUMANITIES PGS	53	29.85	100.81	0.23	0.04	0.03
LITERATURE PGS	53	38.04	71.80	0.23	0.04	0.32

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	53	236.45	236.27	2.17	0.63	0.05
TOTAL HOURS	53	1.34	0.74	2.17	0.63	0.20
REQUIRED PAGES	53	223.00	367.24	2.17	0.63	0.02
REQUIRED HOURS	53	0.93	0.53	2.17	0.63	0.24
UNREQD PAGES	53	60.77	91.61	2.17	0.63	0.03
UNREQD HOURS	53	0.41	0.46	2.17	0.63	0.03
ENGLISH HOURS	53	0.19	0.17	2.17	0.63	0.10
MATH HOURS	53	0.20	0.31	2.17	0.63	-0.05
NAT SCI HOURS	53	0.19	0.28	2.17	0.63	0.11
SOC SCI HOURS	53	0.29	0.41	2.17	0.63	0.14
HUMANITIES HRS	53	0.12	0.22	2.17	0.63	-0.06
LITERATURE HRS	53	0.08	0.14	2.17	0.63	0.17
MAG-NEWS HOURS	53	0.17	0.20	2.17	0.63	0.12
NOTES HOURS	53	0.10	0.23	2.17	0.63	0.09
ENGLISH PAGES	53	42.34	47.48	2.17	0.63	-0.02
MATH PAGES	53	23.36	37.73	2.17	0.63	-0.03
NAT SCI PAGES	53	38.96	67.67	2.17	0.63	0.01
SOC SCI PAGES	53	69.53	123.55	2.17	0.63	0.17
HUMANITIES PGS	53	29.85	100.81	2.17	0.63	-0.12
LITERATURE PGS	53	38.04	71.80	2.17	0.63	0.07

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 5

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	136	276.57	234.86	0.23	0.04	0.10
TOTAL HOURS	136	1.55	0.96	0.23	0.04	-0.04
REQUIRED PAGES	136	221.03	204.51	0.23	0.04	0.07
REQUIRED HOURS	136	1.13	0.78	0.23	0.04	0.02
UNREQD PAGES	136	63.03	114.01	0.23	0.04	0.16
UNREQD HOURS	136	0.45	0.49	0.23	0.04	-0.08
ENGLISH HOURS	136	0.17	0.20	0.23	0.04	0.01
MATH HOURS	136	0.17	0.30	0.23	0.04	0.16
NAT SCI HOURS	136	0.22	0.31	0.23	0.04	-0.12
SOC SCI HOURS	136	0.49	0.53	0.23	0.04	-0.03
HUMANITIES HRS	136	0.10	0.20	0.23	0.04	0.14
LITERATURE HRS	136	0.06	0.17	0.23	0.04	0.17
MAG-NEWS HOURS	136	0.18	0.19	0.23	0.04	0.11
NOTES HOURS	136	0.19	0.38	0.23	0.04	-0.19
ENGLISH PAGES	136	43.11	75.79	0.23	0.04	0.02
MATH PAGES	136	23.07	44.45	0.23	0.04	0.23
NAT SCI PAGES	136	46.57	80.73	0.23	0.04	-0.08
SOC SCI PAGES	136	113.40	143.12	0.23	0.04	-0.01
HUMANITIES PGS	136	22.56	53.90	0.23	0.04	0.19
LITERATURE PGS	136	26.03	71.83	0.23	0.04	0.10

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	136	276.57	234.86	2.18	0.59	0.17
TOTAL HOURS	136	1.55	0.96	2.18	0.59	0.26
REQUIRED PAGES	136	221.03	204.51	2.18	0.59	0.18
REQUIRED HOURS	136	1.13	0.78	2.18	0.59	0.25
UNREQD PAGES	136	63.03	114.01	2.18	0.59	-0.03
UNREQD HOURS	136	0.45	0.49	2.18	0.59	0.10
ENGLISH HOURS	136	0.17	0.20	2.18	0.59	0.15
MATH HOURS	136	0.17	0.30	2.18	0.59	0.11
NAT SCI HOURS	136	0.22	0.31	2.18	0.59	0.08
SOC SCI HOURS	136	0.49	0.53	2.18	0.59	0.16
HUMANITIES HRS	136	0.10	0.20	2.18	0.59	0.12
LITERATURE HRS	136	0.06	0.17	2.18	0.59	0.09
MAG-NEWS HOURS	136	0.18	0.19	2.18	0.59	0.09
NOTES HOURS	136	0.19	0.38	2.18	0.59	0.06
ENGLISH PAGES	136	43.11	75.79	2.18	0.59	0.09
MATH PAGES	136	23.07	44.45	2.18	0.59	0.14
NAT SCI PAGES	136	46.57	80.73	2.18	0.59	0.08
SOC SCI PAGES	136	113.40	143.12	2.18	0.59	0.09
HUMANITIES PGS	136	22.56	53.90	2.18	0.59	0.08
LITERATURE PGS	136	26.03	71.83	2.18	0.59	0.03

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 6

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	49	233.88	155.34	0.24	0.03	-0.19
TOTAL HOURS	49	1.51	0.71	0.24	0.03	-0.30
REQUIRED PAGES	49	167.78	112.46	0.24	0.03	-0.15
REQUIRED HOURS	49	0.88	0.58	0.24	0.03	-0.18
UNREQD PAGES	49	76.73	109.04	0.24	0.03	-0.29
UNREQD HOURS	49	0.63	0.43	0.24	0.03	-0.25
ENGLISH HOURS	49	0.20	0.21	0.24	0.03	-0.01
MATH HOURS	49	0.22	0.32	0.24	0.03	-0.03
NAT SCI HOURS	49	0.20	0.32	0.24	0.03	-0.17
SOC SCI HOURS	49	0.27	0.33	0.24	0.03	-0.20
HUMANITIES HRS	49	0.11	0.22	0.24	0.03	-0.19
LITERATURE HRS	49	0.07	0.16	0.24	0.03	0.08
MAG-NEWS HOURS	49	0.23	0.21	0.24	0.03	0.16
NOTES HOURS	49	0.19	0.31	0.24	0.03	-0.24
ENGLISH PAGES	49	48.49	61.51	0.24	0.03	0.02
MATH PAGES	49	36.16	55.21	0.24	0.03	-0.02
NAT SCI PAGES	49	38.69	65.83	0.24	0.03	-0.15
SOC SCI PAGES	49	59.39	88.94	0.24	0.03	-0.20
HUMANITIES PGS	49	22.90	43.57	0.24	0.03	-0.12
LITERATURE PGS	49	22.12	51.07	0.24	0.03	0.07

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	49	233.88	155.34	2.13	0.61	-0.02
TOTAL HOURS	49	1.51	0.71	2.13	0.61	-0.03
REQUIRED PAGES	49	167.78	112.46	2.13	0.61	0.03
REQUIRED HOURS	49	0.88	0.58	2.13	0.61	0.07
UNREQD PAGES	49	76.73	109.04	2.13	0.61	-0.13
UNREQD HOURS	49	0.63	0.43	2.13	0.61	-0.15
ENGLISH HOURS	49	0.20	0.21	2.13	0.61	0.28
MATH HOURS	49	0.22	0.32	2.13	0.61	-0.11
NAT SCI HOURS	49	0.20	0.32	2.13	0.61	-0.02
SOC SCI HOURS	49	0.27	0.33	2.13	0.61	0.08
HUMANITIES HRS	49	0.11	0.22	2.13	0.61	-0.15
LITERATURE HRS	49	0.07	0.16	2.13	0.61	-0.26
MAG-NEWS HOURS	49	0.23	0.21	2.13	0.61	-0.13
NOTES HOURS	49	0.19	0.31	2.13	0.61	-0.07
ENGLISH PAGES	49	48.49	61.51	2.13	0.61	0.14
MATH PAGES	49	36.16	55.21	2.13	0.61	0.08
NAT SCI PAGES	49	38.69	65.83	2.13	0.61	-0.08
SOC SCI PAGES	49	59.39	88.94	2.13	0.61	0.07
HUMANITIES PGS	49	22.90	43.57	2.13	0.61	-0.04
LITERATURE PGS	49	22.12	51.07	2.13	0.61	-0.15

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 7

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	55	175.56	108.33	0.23	0.04	-0.19
TOTAL HOURS	55	1.53	0.80	0.23	0.04	-0.16
REQUIRED PAGES	55	145.85	100.87	0.23	0.04	-0.30
REQUIRED HOURS	55	1.12	0.71	0.23	0.04	-0.23
UNREQD PAGES	55	32.76	54.21	0.23	0.04	0.14
UNREQD HOURS	55	0.37	0.38	0.23	0.04	0.08
ENGLISH HOURS	55	0.21	0.23	0.23	0.04	-0.06
MATH HOURS	55	0.18	0.30	0.23	0.04	0.19
NAT SCI HOURS	55	0.24	0.28	0.23	0.04	0.20
SOC SCI HOURS	55	0.40	0.43	0.23	0.04	-0.41
HUMANITIES HRS	55	0.07	0.16	0.23	0.04	-0.31
LITERATURE HRS	55	0.06	0.14	0.23	0.04	-0.01
MAG-NEWS HOURS	55	0.22	0.21	0.23	0.04	-0.01
NOTES HOURS	55	0.13	0.24	0.23	0.04	0.04
ENGLISH PAGES	55	39.56	47.80	0.23	0.04	-0.09
MATH PAGES	55	15.44	25.46	0.23	0.04	0.14
NAT SCI PAGES	55	24.60	27.56	0.23	0.04	0.37
SOC SCI PAGES	55	65.02	72.36	0.23	0.04	-0.39
HUMANITIES PGS	55	8.93	18.11	0.23	0.04	-0.43
LITERATURE PGS	55	21.13	52.34	0.23	0.04	0.09

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	55	175.56	108.33	2.25	0.64	-0.04
TOTAL HOURS	55	1.53	0.80	2.25	0.64	-0.01
REQUIRED PAGES	55	145.85	100.87	2.25	0.64	-0.01
REQUIRED HOURS	55	1.12	0.71	2.25	0.64	0.04
UNREQD PAGES	55	32.76	54.21	2.25	0.64	-0.11
UNREQD HOURS	55	0.37	0.38	2.25	0.64	0.02
ENGLISH HOURS	55	0.21	0.23	2.25	0.64	0.02
MATH HOURS	55	0.18	0.30	2.25	0.64	0.08
NAT SCI HOURS	55	0.24	0.28	2.25	0.64	0.24
SOC SCI HOURS	55	0.40	0.43	2.25	0.64	-0.16
HUMANITIES HRS	55	0.07	0.16	2.25	0.64	-0.30
LITERATURE HRS	55	0.06	0.14	2.25	0.64	-0.07
MAG-NEWS HOURS	55	0.22	0.21	2.25	0.64	-0.07
NOTES HOURS	55	0.13	0.24	2.25	0.64	0.15
ENGLISH PAGES	55	39.56	47.80	2.25	0.64	0.08
MATH PAGES	55	15.44	25.46	2.25	0.64	0.08
NAT SCI PAGES	55	24.60	27.56	2.25	0.64	0.24
SOC SCI PAGES	55	65.02	72.36	2.25	0.64	-0.19
HUMANITIES PGS	55	8.93	18.11	2.25	0.64	-0.30
LITERATURE PGS	55	21.13	52.34	2.25	0.64	0.02

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 8

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	74	225.16	238.73	0.23	0.03	0.12
TOTAL HOURS	74	1.69	1.32	0.23	0.03	0.02
REQUIRED PAGES	74	174.78	218.78	0.23	0.03	0.02
REQUIRED HOURS	74	1.07	0.71	0.23	0.03	-0.04
UNREQD PAGES	74	50.65	109.49	0.23	0.03	0.23
UNREQD HOURS	74	0.41	0.42	0.23	0.03	0.20
ENGLISH HOURS	74	0.17	0.19	0.23	0.03	0.09
MATH HOURS	74	0.27	0.36	0.23	0.03	0.23
NAT SCI HOURS	74	0.21	0.27	0.23	0.03	0.11
SOC SCI HOURS	74	0.37	0.41	0.23	0.03	-0.17
HUMANITIES HRS	74	0.10	0.27	0.23	0.03	-0.09
LITERATURE HRS	74	0.07	0.16	0.23	0.03	0.22
MAG-NEWS HOURS	74	0.21	0.27	0.23	0.03	0.10
NOTES HOURS	74	0.10	0.23	0.23	0.03	-0.02
ENGLISH PAGES	74	47.01	102.81	0.23	0.03	0.09
MATH PAGES	74	33.68	65.95	0.23	0.03	0.12
NAT SCI PAGES	74	29.01	40.79	0.23	0.03	0.19
SOC SCI PAGES	74	74.93	133.95	0.23	0.03	-0.10
HUMANITIES PGS	74	10.36	21.23	0.23	0.03	0.01
LITERATURE PGS	74	30.28	86.54	0.23	0.03	0.21

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	74	225.16	238.73	2.01	0.61	0.02
TOTAL HOURS	74	1.69	1.32	2.01	0.61	-0.10
REQUIRED PAGES	74	174.78	218.78	2.01	0.61	0.02
REQUIRED HOURS	74	1.07	0.71	2.01	0.61	0.08
UNREQD PAGES	74	50.65	109.49	2.01	0.61	0.01
UNREQD HOURS	74	0.41	0.42	2.01	0.61	-0.14
ENGLISH HOURS	74	0.17	0.19	2.01	0.61	0.11
MATH HOURS	74	0.27	0.36	2.01	0.61	0.19
NAT SCI HOURS	74	0.21	0.27	2.01	0.61	-0.04
SOC SCI HOURS	74	0.37	0.41	2.01	0.61	-0.04
HUMANITIES HRS	74	0.10	0.27	2.01	0.61	-0.02
LITERATURE HRS	74	0.07	0.16	2.01	0.61	-0.09
MAG-NEWS HOURS	74	0.21	0.27	2.01	0.61	-0.21
NOTES HOURS	74	0.10	0.23	2.01	0.61	0.01
ENGLISH PAGES	74	47.01	102.81	2.01	0.61	0.08
MATH PAGES	74	33.68	65.95	2.01	0.61	0.04
NAT SCI PAGES	74	29.01	40.79	2.01	0.61	-0.15
SOC SCI PAGES	74	74.93	133.95	2.01	0.61	0.06
HUMANITIES PGS	74	10.36	21.23	2.01	0.61	0.02
LITERATURE PGS	74	30.28	86.54	2.01	0.61	-0.09

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 9

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	74	220.73	145.88	0.23	0.03	-0.10
TOTAL HOURS	74	1.66	0.94	0.23	0.03	-0.07
REQUIRED PAGES	74	180.43	126.82	0.23	0.03	-0.00
REQUIRED HOURS	74	1.32	0.83	0.23	0.03	0.02
UNREQD PAGES	74	40.45	81.18	0.23	0.03	-0.18
UNREQD HOURS	74	0.38	0.39	0.23	0.03	-0.08
ENGLISH HOURS	74	0.18	0.26	0.23	0.03	-0.02
MATH HOURS	74	0.35	0.39	0.23	0.03	0.06
NAT SCI HOURS	74	0.20	0.27	0.23	0.03	0.38
SOC SCI HOURS	74	0.50	0.65	0.23	0.03	-0.20
HUMANITIES HRS	74	0.08	0.17	0.23	0.03	-0.17
LITERATURE HRS	74	0.05	0.13	0.23	0.03	0.08
MAG-NEWS HOURS	74	0.19	0.21	0.23	0.03	0.15
NOTES HOURS	74	0.13	0.24	0.23	0.03	-0.09
ENGLISH PAGES	74	25.30	36.18	0.23	0.03	-0.01
MATH PAGES	74	39.51	49.55	0.23	0.03	-0.04
NAT SCI PAGES	74	28.69	42.23	0.23	0.03	0.30
SOC SCI PAGES	74	97.78	127.00	0.23	0.03	-0.20
HUMANITIES PGS	74	12.11	25.70	0.23	0.03	-0.05
LITERATURE PGS	74	17.36	53.94	0.23	0.03	0.03

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	74	220.73	145.88	2.19	0.62	0.03
TOTAL HOURS	74	1.66	0.94	2.19	0.62	-0.04
REQUIRED PAGES	74	180.43	126.82	2.19	0.62	0.07
REQUIRED HOURS	74	1.32	0.83	2.19	0.62	0.05
UNREQD PAGES	74	40.45	81.18	2.19	0.62	-0.05
UNREQD HOURS	74	0.38	0.39	2.19	0.62	-0.02
ENGLISH HOURS	74	0.18	0.26	2.19	0.62	0.02
MATH HOURS	74	0.35	0.39	2.19	0.62	-0.10
NAT SCI HOURS	74	0.20	0.27	2.19	0.62	0.10
SOC SCI HOURS	74	0.50	0.65	2.19	0.62	0.02
HUMANITIES HRS	74	0.08	0.17	2.19	0.62	-0.09
LITERATURE HRS	74	0.05	0.13	2.19	0.62	-0.08
MAG-NEWS HOURS	74	0.19	0.21	2.19	0.62	0.08
NOTES HOURS	74	0.13	0.24	2.19	0.62	0.16
ENGLISH PAGES	74	25.30	36.18	2.19	0.62	0.11
MATH PAGES	74	39.51	49.55	2.19	0.62	-0.14
NAT SCI PAGES	74	28.69	42.23	2.19	0.62	0.14
SOC SCI PAGES	74	97.78	127.00	2.19	0.62	0.04
HUMANITIES PGS	74	12.11	25.70	2.19	0.62	-0.02
LITERATURE PGS	74	17.36	53.94	2.19	0.62	-0.04

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 10

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	107	211.82	225.46	0.22	0.04	-0.13
TOTAL HOURS	107	1.39	0.90	0.22	0.04	-0.19
REQUIRED PAGES	107	157.58	173.16	0.22	0.04	-0.14
REQUIRED HOURS	107	0.94	0.70	0.22	0.04	-0.29
UNREQD PAGES	107	54.88	137.83	0.22	0.04	-0.04
UNREQD HOURS	107	0.44	0.55	0.22	0.04	0.05
ENGLISH HOURS	107	0.12	0.18	0.22	0.04	-0.11
MATH HOURS	107	0.18	0.26	0.22	0.04	0.09
NAT SCI HOURS	107	0.23	0.40	0.22	0.04	-0.03
SOC SCI HOURS	107	0.36	0.58	0.22	0.04	-0.32
HUMANITIES HRS	107	0.10	0.22	0.22	0.04	0.02
LITERATURE HRS	107	0.05	0.15	0.22	0.04	0.02
MAG-NEWS HOURS	107	0.23	0.21	0.22	0.04	0.18
NOTES HOURS	107	0.11	0.26	0.22	0.04	-0.08
ENGLISH PAGES	107	28.21	65.87	0.22	0.04	-0.09
MATH PAGES	107	26.09	58.84	0.22	0.04	0.15
NAT SCI PAGES	107	41.46	81.92	0.22	0.04	-0.02
SOC SCI PAGES	107	78.86	149.21	0.22	0.04	-0.23
HUMANITIES PGS	107	15.59	46.05	0.22	0.04	-0.05
LITERATURE PGS	107	21.60	73.31	0.22	0.04	0.11

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	107	211.82	225.46	2.06	0.56	-0.08
TOTAL HOURS	107	1.39	0.90	2.06	0.56	-0.20
REQUIRED PAGES	107	157.58	173.16	2.06	0.56	-0.09
REQUIRED HOURS	107	0.94	0.70	2.06	0.56	-0.28
UNREQD PAGES	107	54.88	137.83	2.06	0.56	-0.03
UNREQD HOURS	107	0.44	0.55	2.06	0.56	0.03
ENGLISH HOURS	107	0.12	0.18	2.06	0.56	-0.08
MATH HOURS	107	0.18	0.26	2.06	0.56	-0.04
NAT SCI HOURS	107	0.23	0.40	2.06	0.56	-0.12
SOC SCI HOURS	107	0.36	0.58	2.06	0.56	-0.08
HUMANITIES HRS	107	0.10	0.22	2.06	0.56	-0.09
LITERATURE HRS	107	0.05	0.15	2.06	0.56	0.05
MAG-NEWS HOURS	107	0.23	0.21	2.06	0.56	-0.05
NOTES HOURS	107	0.11	0.26	2.06	0.56	-0.17
ENGLISH PAGES	107	28.21	65.87	2.06	0.56	0.02
MATH PAGES	107	26.09	58.84	2.06	0.56	-0.05
NAT SCI PAGES	107	41.46	81.92	2.06	0.56	-0.07
SOC SCI PAGES	107	78.86	149.21	2.06	0.56	-0.07
HUMANITIES PGS	107	15.59	46.05	2.06	0.56	-0.14
LITERATURE PGS	107	21.60	73.31	2.06	0.56	0.07

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 11

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	83	229.83	209.46	0.23	0.04	0.09
TOTAL HOURS	83	1.49	0.78	0.23	0.04	0.03
REQUIRED PAGES	83	161.05	133.95	0.23	0.04	0.13
REQUIRED HOURS	83	1.02	0.62	0.23	0.04	0.05
UNREQD PAGES	83	61.42	138.65	0.23	0.04	0.01
UNREQD HOURS	83	0.47	0.40	0.23	0.04	-0.03
ENGLISH HOURS	83	0.13	0.18	0.23	0.04	0.15
MATH HOURS	83	0.22	0.29	0.23	0.04	0.18
NAT SCI HOURS	83	0.26	0.34	0.23	0.04	-0.08
SOC SCI HOURS	83	0.33	0.44	0.23	0.04	-0.20
HUMANITIES HRS	83	0.10	0.24	0.23	0.04	0.21
LITERATURE HRS	83	0.08	0.19	0.23	0.04	0.04
MAG-NEWS HOURS	83	0.29	0.27	0.23	0.04	0.17
NOTES HOURS	83	0.08	0.16	0.23	0.04	0.01
ENGLISH PAGES	83	29.05	50.17	0.23	0.04	0.13
MATH PAGES	83	31.72	56.45	0.23	0.04	0.16
NAT SCI PAGES	83	40.57	65.01	0.23	0.04	0.09
SOC SCI PAGES	83	67.66	101.50	0.23	0.04	-0.16
HUMANITIES PGS	83	18.05	36.04	0.23	0.04	0.23
LITERATURE PGS	83	43.14	134.70	0.23	0.04	0.04

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	83	229.83	209.46	2.13	0.65	0.07
TOTAL HOURS	83	1.49	0.78	2.13	0.65	0.12
REQUIRED PAGES	83	161.05	133.95	2.13	0.65	0.10
REQUIRED HOURS	83	1.02	0.62	2.13	0.65	-0.02
UNREQD PAGES	83	61.42	138.65	2.13	0.65	0.04
UNREQD HOURS	83	0.47	0.40	2.13	0.65	0.24
ENGLISH HOURS	83	0.13	0.18	2.13	0.65	0.05
MATH HOURS	83	0.22	0.29	2.13	0.65	0.05
NAT SCI HOURS	83	0.26	0.34	2.13	0.65	-0.04
SOC SCI HOURS	83	0.33	0.44	2.13	0.65	-0.09
HUMANITIES HRS	83	0.10	0.24	2.13	0.65	0.22
LITERATURE HRS	83	0.08	0.19	2.13	0.65	-0.02
MAG-NEWS HOURS	83	0.29	0.27	2.13	0.65	0.22
NOTES HOURS	83	0.08	0.16	2.13	0.65	0.11
ENGLISH PAGES	83	29.05	50.17	2.13	0.65	0.01
MATH PAGES	83	31.72	56.45	2.13	0.65	0.10
NAT SCI PAGES	83	40.57	65.01	2.13	0.65	0.05
SOC SCI PAGES	83	67.66	101.50	2.13	0.65	-0.04
HUMANITIES PGS	83	18.05	36.04	2.13	0.65	0.24
LITERATURE PGS	83	43.14	134.70	2.13	0.65	0.01

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 12

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	73	212.81	164.33	0.24	0.04	0.03
TOTAL HOURS	73	1.62	1.32	0.24	0.04	-0.05
REQUIRED PAGES	73	163.77	142.96	0.24	0.04	-0.05
REQUIRED HOURS	73	0.93	0.80	0.24	0.04	-0.16
UNREQD PAGES	73	48.00	98.25	0.24	0.04	0.11
UNREQD HOURS	73	0.52	0.48	0.24	0.04	0.12
ENGLISH HOURS	73	0.09	0.15	0.24	0.04	0.01
MATH HOURS	73	0.20	0.30	0.24	0.04	0.07
NAT SCI HOURS	73	0.16	0.25	0.24	0.04	0.14
SOC SCI HOURS	73	0.47	0.60	0.24	0.04	-0.29
HUMANITIES HRS	73	0.07	0.20	0.24	0.04	0.03
LITERATURE HRS	73	0.06	0.15	0.24	0.04	0.04
MAG-NEWS HOURS	73	0.28	0.27	0.24	0.04	0.16
NOTES HOURS	73	0.13	0.27	0.24	0.04	-0.04
ENGLISH PAGES	73	19.05	37.03	0.24	0.04	0.08
MATH PAGES	73	24.34	37.44	0.24	0.04	0.11
NAT SCI PAGES	73	23.10	35.35	0.24	0.04	0.18
SOC SCI PAGES	73	84.63	114.39	0.24	0.04	-0.26
HUMANITIES PGS	73	14.81	32.62	0.24	0.04	-0.06
LITERATURE PGS	73	29.74	90.67	0.24	0.04	0.21

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	73	212.81	164.33	2.23	0.63	0.24
TOTAL HOURS	73	1.62	1.32	2.23	0.63	0.00
REQUIRED PAGES	73	163.77	142.96	2.23	0.63	0.20
REQUIRED HOURS	73	0.93	0.80	2.23	0.63	0.10
UNREQD PAGES	73	48.00	98.25	2.23	0.63	0.10
UNREQD HOURS	73	0.52	0.48	2.23	0.63	0.05
ENGLISH HOURS	73	0.09	0.15	2.23	0.63	-0.10
MATH HOURS	73	0.20	0.30	2.23	0.63	-0.18
NAT SCI HOURS	73	0.16	0.25	2.23	0.63	-0.01
SOC SCI HOURS	73	0.47	0.60	2.23	0.63	0.18
HUMANITIES HRS	73	0.07	0.20	2.23	0.63	0.12
LITERATURE HRS	73	0.06	0.15	2.23	0.63	-0.03
MAG-NEWS HOURS	73	0.28	0.27	2.23	0.63	-0.02
NOTES HOURS	73	0.13	0.27	2.23	0.63	0.19
ENGLISH PAGES	73	19.05	37.03	2.23	0.63	-0.05
MATH PAGES	73	24.34	37.44	2.23	0.63	-0.17
NAT SCI PAGES	73	23.10	35.35	2.23	0.63	0.02
SOC SCI PAGES	73	84.63	114.39	2.23	0.63	0.17
HUMANITIES PGS	73	14.81	32.62	2.23	0.63	0.11
LITERATURE PGS	73	29.74	90.67	2.23	0.63	0.20

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 13

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	77	258.39	194.98	0.23	0.03	-0.09
TOTAL HOURS	77	1.51	0.79	0.23	0.03	-0.17
REQUIRED PAGES	77	194.53	158.56	0.23	0.03	-0.13
REQUIRED HOURS	77	1.09	0.72	0.23	0.03	-0.16
UNREQD PAGES	77	63.86	112.99	0.23	0.03	0.02
UNREQD HOURS	77	0.43	0.42	0.23	0.03	-0.06
ENGLISH HOURS	77	0.20	0.29	0.23	0.03	-0.09
MATH HOURS	77	0.11	0.21	0.23	0.03	0.05
NAT SCI HOURS	77	0.25	0.36	0.23	0.03	0.05
SOC SCI HOURS	77	0.53	0.58	0.23	0.03	-0.16
HUMANITIES HRS	77	0.08	0.21	0.23	0.03	-0.13
LITERATURE HRS	77	0.10	0.22	0.23	0.03	0.02
MAG-NEWS HOURS	77	0.20	0.19	0.23	0.03	-0.04
NOTES HOURS	77	0.05	0.10	0.23	0.03	-0.10
ENGLISH PAGES	77	50.19	83.47	0.23	0.03	-0.05
MATH PAGES	77	12.05	23.37	0.23	0.03	-0.03
NAT SCI PAGES	77	42.84	75.20	0.23	0.03	0.02
SOC SCI PAGES	77	94.81	107.50	0.23	0.03	-0.13
HUMANITIES PGS	77	14.38	43.99	0.23	0.03	-0.10
LITERATURE PGS	77	44.16	93.21	0.23	0.03	0.05

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	77	258.39	194.98	2.07	0.58	-0.10
TOTAL HOURS	77	1.51	0.79	2.07	0.58	-0.08
REQUIRED PAGES	77	194.53	158.56	2.07	0.58	-0.06
REQUIRED HOURS	77	1.09	0.72	2.07	0.58	-0.09
UNREQD PAGES	77	63.86	112.99	2.07	0.58	-0.09
UNREQD HOURS	77	0.43	0.42	2.07	0.58	0.00
ENGLISH HOURS	77	0.20	0.29	2.07	0.58	0.06
MATH HOURS	77	0.11	0.21	2.07	0.58	-0.08
NAT SCI HOURS	77	0.25	0.36	2.07	0.58	-0.02
SOC SCI HOURS	77	0.53	0.58	2.07	0.58	0.01
HUMANITIES HRS	77	0.08	0.21	2.07	0.58	-0.11
LITERATURE HRS	77	0.10	0.22	2.07	0.58	-0.14
MAG-NEWS HOURS	77	0.20	0.19	2.07	0.58	-0.06
NOTES HOURS	77	0.05	0.10	2.07	0.58	0.03
ENGLISH PAGES	77	50.19	83.47	2.07	0.58	0.03
MATH PAGES	77	12.05	23.37	2.07	0.58	-0.06
NAT SCI PAGES	77	42.84	75.20	2.07	0.58	-0.04
SOC SCI PAGES	77	94.81	107.50	2.07	0.58	0.00
HUMANITIES PGS	77	14.38	43.99	2.07	0.58	-0.02
LITERATURE PGS	77	44.16	93.21	2.07	0.58	-0.18

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 14

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	38	334.11	256.94	0.23	0.03	-0.08
TOTAL HOURS	38	2.11	1.19	0.23	0.03	-0.01
REQUIRED PAGES	38	241.74	231.35	0.23	0.03	0.07
REQUIRED HOURS	38	1.37	1.27	0.23	0.03	0.00
UNREQD PAGES	38	92.37	164.00	0.23	0.03	-0.22
UNREQD HOURS	38	0.75	0.61	0.23	0.03	-0.03
ENGLISH HOURS	38	0.14	0.18	0.23	0.03	0.09
MATH HOURS	38	0.15	0.27	0.23	0.03	0.08
NAT SCI HOURS	38	0.29	0.46	0.23	0.03	0.08
SOC SCI HOURS	38	0.71	0.79	0.23	0.03	-0.15
HUMANITIES HRS	38	0.17	0.34	0.23	0.03	-0.10
LITERATURE HRS	38	0.08	0.23	0.23	0.03	-0.00
MAG-NEWS HOURS	38	0.18	0.21	0.23	0.03	0.36
NOTES HOURS	38	0.37	0.75	0.23	0.03	-0.02
ENGLISH PAGES	38	40.89	79.55	0.23	0.03	0.07
MATH PAGES	38	32.29	69.01	0.23	0.03	0.08
NAT SCI PAGES	38	53.50	99.03	0.23	0.03	-0.11
SOC SCI PAGES	38	147.39	168.42	0.23	0.03	-0.08
HUMANITIES PGS	38	33.39	58.38	0.23	0.03	-0.07
LITERATURE PGS	38	26.63	89.25	0.23	0.03	-0.03

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	38	334.11	256.94	1.87	0.70	-0.19
TOTAL HOURS	38	2.11	1.19	1.87	0.70	0.03
REQUIRED PAGES	38	241.74	231.35	1.87	0.70	-0.19
REQUIRED HOURS	38	1.37	1.27	1.87	0.70	-0.12
UNREQD PAGES	38	92.37	164.00	1.87	0.70	-0.03
UNREQD HOURS	38	0.75	0.61	1.87	0.70	0.30
ENGLISH HOURS	38	0.14	0.18	1.87	0.70	-0.02
MATH HOURS	38	0.15	0.27	1.87	0.70	-0.02
NAT SCI HOURS	38	0.29	0.46	1.87	0.70	-0.02
SOC SCI HOURS	38	0.71	0.79	1.87	0.70	-0.19
HUMANITIES HRS	38	0.17	0.34	1.87	0.70	-0.07
LITERATURE HRS	38	0.08	0.23	1.87	0.70	-0.03
MAG-NEWS HOURS	38	0.18	0.21	1.87	0.70	0.52
NOTES HOURS	38	0.37	0.75	1.87	0.70	0.16
ENGLISH PAGES	38	40.89	79.55	1.87	0.70	0.00
MATH PAGES	38	32.29	69.01	1.87	0.70	-0.11
NAT SCI PAGES	38	53.50	99.03	1.87	0.70	-0.08
SOC SCI PAGES	38	147.39	168.42	1.87	0.70	-0.16
HUMANITIES PGS	38	33.39	58.38	1.87	0.70	-0.17
LITERATURE PGS	38	26.63	89.25	1.87	0.70	0.04

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 15

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	40	248.12	358.02	0.23	0.04	0.07
TOTAL HOURS	40	1.45	1.04	0.23	0.04	0.09
REQUIRED PAGES	40	210.17	336.93	0.23	0.04	0.00
REQUIRED HOURS	40	1.14	0.96	0.23	0.04	-0.01
UNREQD PAGES	40	37.95	73.72	0.23	0.04	0.31
UNREQD HOURS	40	0.31	0.31	0.23	0.04	0.35
ENGLISH HOURS	40	0.45	0.52	0.23	0.04	-0.01
MATH HOURS	40	0.22	0.27	0.23	0.04	0.08
NAT SCI HOURS	40	0.08	0.16	0.23	0.04	0.16
SOC SCI HOURS	40	0.36	0.49	0.23	0.04	0.01
HUMANITIES HRS	40	0.07	0.19	0.23	0.04	-0.30
LITERATURE HRS	40	0.09	0.17	0.23	0.04	0.25
MAG-NEWS HOURS	40	0.18	0.20	0.23	0.04	0.26
NOTES HOURS	40	0.00	0.01	0.23	0.04	-0.01
ENGLISH PAGES	40	85.17	158.25	0.23	0.04	0.00
MATH PAGES	40	22.42	26.34	0.23	0.04	0.08
NAT SCI PAGES	40	11.82	20.36	0.23	0.04	0.10
SOC SCI PAGES	40	71.12	106.90	0.23	0.04	0.04
HUMANITIES PGS	40	29.45	100.36	0.23	0.04	-0.06
LITERATURE PGS	40	25.60	54.47	0.23	0.04	0.33

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	40	248.12	358.02	2.30	0.72	-0.26
TOTAL HOURS	40	1.45	1.04	2.30	0.72	0.06
REQUIRED PAGES	40	210.17	336.93	2.30	0.72	-0.25
REQUIRED HOURS	40	1.14	0.96	2.30	0.72	-0.00
UNREQD PAGES	40	37.95	73.72	2.30	0.72	-0.13
UNREQD HOURS	40	0.31	0.31	2.30	0.72	0.21
ENGLISH HOURS	40	0.45	0.52	2.30	0.72	-0.20
MATH HOURS	40	0.22	0.27	2.30	0.72	0.03
NAT SCI HOURS	40	0.08	0.16	2.30	0.72	0.24
SOC SCI HOURS	40	0.36	0.49	2.30	0.72	0.18
HUMANITIES HRS	40	0.07	0.19	2.30	0.72	-0.11
LITERATURE HRS	40	0.09	0.17	2.30	0.72	0.01
MAG-NEWS HOURS	40	0.18	0.20	2.30	0.72	0.27
NOTES HOURS	40	0.00	0.01	2.30	0.72	0.03
ENGLISH PAGES	40	85.17	158.25	2.30	0.72	-0.34
MATH PAGES	40	22.42	26.34	2.30	0.72	0.11
NAT SCI PAGES	40	11.82	20.36	2.30	0.72	0.09
SOC SCI PAGES	40	71.12	106.90	2.30	0.72	-0.12
HUMANITIES PGS	40	29.45	100.36	2.30	0.72	-0.36
LITERATURE PGS	40	25.60	54.47	2.30	0.72	-0.06

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 16

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	60	207.37	129.72	0.23	0.04	0.10
TOTAL HOURS	60	1.30	0.75	0.23	0.04	0.02
REQUIRED PAGES	60	175.15	111.40	0.23	0.04	0.12
REQUIRED HOURS	60	1.06	0.66	0.23	0.04	0.02
UNREQD PAGES	60	35.12	69.54	0.23	0.04	-0.01
UNREQD HOURS	60	0.24	0.30	0.23	0.04	-0.00
ENGLISH HOURS	60	0.43	0.33	0.23	0.04	-0.06
MATH HOURS	60	0.16	0.24	0.23	0.04	0.15
NAT SCI HOURS	60	0.14	0.22	0.23	0.04	-0.12
SOC SCI HOURS	60	0.28	0.35	0.23	0.04	0.01
HUMANITIES HRS	60	0.06	0.11	0.23	0.04	0.01
LITERATURE HRS	60	0.06	0.16	0.23	0.04	-0.06
MAG-NEWS HOURS	60	0.13	0.18	0.23	0.04	0.04
NOTES HOURS	60	0.02	0.12	0.23	0.04	0.14
ENGLISH PAGES	60	79.78	58.99	0.23	0.04	0.07
MATH PAGES	60	16.92	25.90	0.23	0.04	0.08
NAT SCI PAGES	60	22.08	33.35	0.23	0.04	-0.02
SOC SCI PAGES	60	52.98	66.50	0.23	0.04	0.08
HUMANITIES PGS	60	9.33	18.82	0.23	0.04	0.06
LITERATURE PGS	60	24.90	54.92	0.23	0.04	0.03

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	60	207.37	129.72	2.29	0.71	0.30
TOTAL HOURS	60	1.30	0.75	2.29	0.71	0.20
REQUIRED PAGES	60	175.15	111.40	2.29	0.71	0.31
REQUIRED HOURS	60	1.06	0.66	2.29	0.71	0.16
UNREQD PAGES	60	35.12	69.54	2.29	0.71	0.05
UNREQD HOURS	60	0.24	0.30	2.29	0.71	0.16
ENGLISH HOURS	60	0.43	0.33	2.29	0.71	0.16
MATH HOURS	60	0.16	0.24	2.29	0.71	0.08
NAT SCI HOURS	60	0.14	0.22	2.29	0.71	-0.18
SOC SCI HOURS	60	0.28	0.35	2.29	0.71	0.17
HUMANITIES HRS	60	0.06	0.11	2.29	0.71	0.35
LITERATURE HRS	60	0.06	0.16	2.29	0.71	-0.04
MAG-NEWS HOURS	60	0.13	0.18	2.29	0.71	0.10
NOTES HOURS	60	0.02	0.12	2.29	0.71	0.10
ENGLISH PAGES	60	79.78	58.99	2.29	0.71	0.22
MATH PAGES	60	16.92	25.90	2.29	0.71	0.15
NAT SCI PAGES	60	22.08	33.35	2.29	0.71	-0.04
SOC SCI PAGES	60	52.98	66.50	2.29	0.71	0.28
HUMANITIES PGS	60	9.33	18.82	2.29	0.71	0.35
LITERATURE PGS	60	24.90	54.92	2.29	0.71	-0.03

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 17

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	22	184.36	91.41	0.22	0.04	0.27
TOTAL HOURS	22	1.21	0.82	0.22	0.04	-0.14
REQUIRED PAGES	22	180.41	89.30	0.22	0.04	0.25
REQUIRED HOURS	22	1.01	0.66	0.22	0.04	-0.09
UNREQD PAGES	22	3.95	11.86	0.22	0.04	0.18
UNREQD HOURS	22	0.20	0.25	0.22	0.04	-0.21
ENGLISH HOURS	22	0.43	0.39	0.22	0.04	-0.19
MATH HOURS	22	0.10	0.20	0.22	0.04	0.20
NAT SCI HOURS	22	0.03	0.07	0.22	0.04	-0.14
SOC SCI HOURS	22	0.36	0.31	0.22	0.04	-0.07
HUMANITIES HRS	22	0.05	0.08	0.22	0.04	-0.16
LITERATURE HRS	22	0.03	0.11	0.22	0.04	0.09
MAG-NEWS HOURS	22	0.17	0.23	0.22	0.04	-0.30
NOTES HOURS	22	0.04	0.13	0.22	0.04	0.19
ENGLISH PAGES	22	77.41	66.66	0.22	0.04	0.07
MATH PAGES	22	16.18	33.17	0.22	0.04	0.29
NAT SCI PAGES	22	4.86	13.71	0.22	0.04	-0.07
SOC SCI PAGES	22	62.14	46.97	0.22	0.04	0.21
HUMANITIES PGS	22	12.59	22.06	0.22	0.04	-0.10
LITERATURE PGS	22	10.91	36.64	0.22	0.04	0.10

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	22	184.36	91.41	2.34	0.55	0.42
TOTAL HOURS	22	1.21	0.82	2.34	0.55	0.27
REQUIRED PAGES	22	180.41	89.30	2.34	0.55	0.46
REQUIRED HOURS	22	1.01	0.66	2.34	0.55	0.32
UNREQD PAGES	22	3.95	11.86	2.34	0.55	-0.16
UNREQD HOURS	22	0.20	0.25	2.34	0.55	0.04
ENGLISH HOURS	22	0.43	0.39	2.34	0.55	0.25
MATH HOURS	22	0.10	0.20	2.34	0.55	-0.09
NAT SCI HOURS	22	0.03	0.07	2.34	0.55	0.41
SOC SCI HOURS	22	0.36	0.31	2.34	0.55	0.09
HUMANITIES HRS	22	0.05	0.08	2.34	0.55	0.42
LITERATURE HRS	22	0.03	0.11	2.34	0.55	0.13
MAG-NEWS HOURS	22	0.17	0.23	2.34	0.55	0.21
NOTES HOURS	22	0.04	0.13	2.34	0.55	-0.11
ENGLISH PAGES	22	77.41	66.66	2.34	0.55	0.30
MATH PAGES	22	16.18	33.17	2.34	0.55	0.07
NAT SCI PAGES	22	4.86	13.71	2.34	0.55	0.33
SOC SCI PAGES	22	62.14	46.97	2.34	0.55	-0.02
HUMANITIES PGS	22	12.59	22.06	2.34	0.55	0.39
LITERATURE PGS	22	10.91	36.64	2.34	0.55	0.13

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 18

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	262.50	192.57	0.23	0.04	-0.07
TOTAL HOURS	26	1.71	1.00	0.23	0.04	0.05
REQUIRED PAGES	26	232.77	182.43	0.23	0.04	-0.22
REQUIRED HOURS	26	1.38	0.92	0.23	0.04	-0.05
UNREQD PAGES	26	37.92	81.54	0.23	0.04	0.49
UNREQD HOURS	26	0.33	0.29	0.23	0.04	0.34
ENGLISH HOURS	26	0.52	0.44	0.23	0.04	-0.54
MATH HOURS	26	0.12	0.23	0.23	0.04	0.28
NAT SCI HOURS	26	0.20	0.26	0.23	0.04	0.16
SOC SCI HOURS	26	0.31	0.45	0.23	0.04	0.23
HUMANITIES HRS	26	0.13	0.21	0.23	0.04	-0.21
LITERATURE HRS	26	0.05	0.11	0.23	0.04	0.16
MAG-NEWS HOURS	26	0.20	0.26	0.23	0.04	0.37
NOTES HOURS	26	0.17	0.35	0.23	0.04	-0.04
ENGLISH PAGES	26	115.04	121.86	0.23	0.04	-0.36
MATH PAGES	26	18.62	42.24	0.23	0.04	0.15
NAT SCI PAGES	26	28.35	34.75	0.23	0.04	-0.01
SOC SCI PAGES	26	54.12	68.16	0.23	0.04	0.23
HUMANITIES PGS	26	26.46	44.11	0.23	0.04	-0.20
LITERATURE PGS	26	23.04	58.39	0.23	0.04	0.39

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	262.50	192.57	2.30	0.66	-0.08
TOTAL HOURS	26	1.71	1.00	2.30	0.66	-0.09
REQUIRED PAGES	26	232.77	182.43	2.30	0.66	-0.15
REQUIRED HOURS	26	1.38	0.92	2.30	0.66	-0.08
UNREQD PAGES	26	37.92	81.54	2.30	0.66	0.37
UNREQD HOURS	26	0.33	0.29	2.30	0.66	-0.05
ENGLISH HOURS	26	0.52	0.44	2.30	0.66	-0.16
MATH HOURS	26	0.12	0.23	2.30	0.66	-0.04
NAT SCI HOURS	26	0.20	0.26	2.30	0.66	0.14
SOC SCI HOURS	26	0.31	0.45	2.30	0.66	-0.04
HUMANITIES HRS	26	0.13	0.21	2.30	0.66	-0.09
LITERATURE HRS	26	0.05	0.11	2.30	0.66	0.18
MAG-NEWS HOURS	26	0.20	0.26	2.30	0.66	-0.08
NOTES HOURS	26	0.17	0.35	2.30	0.66	-0.10
ENGLISH PAGES	26	115.04	121.86	2.30	0.66	-0.19
MATH PAGES	26	18.62	42.24	2.30	0.66	0.17
NAT SCI PAGES	26	28.35	34.75	2.30	0.66	0.00
SOC SCI PAGES	26	54.12	68.16	2.30	0.66	-0.05
HUMANITIES PGS	26	26.46	44.11	2.30	0.66	-0.04
LITERATURE PGS	26	23.04	58.39	2.30	0.66	0.21

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 19

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	61	323.49	188.79	0.23	0.03	-0.11
TOTAL HOURS	61	1.96	1.00	0.23	0.03	0.01
REQUIRED PAGES	61	269.84	189.70	0.23	0.03	-0.22
REQUIRED HOURS	61	1.46	0.82	0.23	0.03	-0.14
UNREQD PAGES	61	53.62	117.10	0.23	0.03	0.17
UNREQD HOURS	61	0.54	0.64	0.23	0.03	0.15
ENGLISH HOURS	61	0.41	0.38	0.23	0.03	-0.23
MATH HOURS	61	0.26	0.44	0.23	0.03	-0.02
NAT SCI HOURS	61	0.30	0.42	0.23	0.03	0.01
SOC SCI HOURS	61	0.51	0.51	0.23	0.03	-0.11
HUMANITIES HRS	61	0.06	0.14	0.23	0.03	0.09
LITERATURE HRS	61	0.06	0.20	0.23	0.03	0.23
MAG-NEWS HOURS	61	0.18	0.18	0.23	0.03	0.30
NOTES HOURS	61	0.21	0.30	0.23	0.03	0.06
ENGLISH PAGES	61	105.10	120.78	0.23	0.03	-0.24
MATH PAGES	61	27.28	59.83	0.23	0.03	-0.13
NAT SCI PAGES	61	48.38	72.79	0.23	0.03	0.06
SOC SCI PAGES	61	102.10	113.60	0.23	0.03	-0.14
HUMANITIES PGS	61	12.43	31.64	0.23	0.03	0.14
LITERATURE PGS	61	28.18	109.15	0.23	0.03	0.22

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	61	323.49	188.79	2.34	0.66	0.03
TOTAL HOURS	61	1.96	1.00	2.34	0.66	0.12
REQUIRED PAGES	61	269.84	189.70	2.34	0.66	0.02
REQUIRED HOURS	61	1.46	0.82	2.34	0.66	0.10
UNREQD PAGES	61	53.62	117.10	2.34	0.66	0.01
UNREQD HOURS	61	0.54	0.64	2.34	0.66	0.08
ENGLISH HOURS	61	0.41	0.38	2.34	0.66	0.05
MATH HOURS	61	0.26	0.44	2.34	0.66	-0.07
NAT SCI HOURS	61	0.30	0.42	2.34	0.66	0.11
SOC SCI HOURS	61	0.51	0.51	2.34	0.66	0.04
HUMANITIES HRS	61	0.06	0.14	2.34	0.66	0.13
LITERATURE HRS	61	0.06	0.20	2.34	0.66	-0.09
MAG-NEWS HOURS	61	0.18	0.18	2.34	0.66	0.05
NOTES HOURS	61	0.21	0.30	2.34	0.66	0.23
ENGLISH PAGES	61	105.10	120.78	2.34	0.66	0.03
MATH PAGES	61	27.28	59.83	2.34	0.66	-0.23
NAT SCI PAGES	61	48.38	72.79	2.34	0.66	0.14
SOC SCI PAGES	61	102.10	113.60	2.34	0.66	0.05
HUMANITIES PGS	61	12.43	31.64	2.34	0.66	0.24
LITERATURE PGS	61	28.18	109.15	2.34	0.66	-0.07

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 20

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	17	269.82	180.91	0.23	0.02	-0.06
TOTAL HOURS	17	1.67	1.07	0.23	0.02	0.30
REQUIRED PAGES	17	250.00	184.21	0.23	0.02	-0.03
REQUIRED HOURS	17	1.29	0.81	0.23	0.02	0.10
UNREQD PAGES	17	19.82	48.18	0.23	0.02	-0.11
UNREQD HOURS	17	0.38	0.59	0.23	0.02	0.40
ENGLISH HOURS	17	0.44	0.40	0.23	0.02	0.07
MATH HOURS	17	0.26	0.39	0.23	0.02	-0.10
NAT SCI HOURS	17	0.22	0.36	0.23	0.02	0.21
SOC SCI HOURS	17	0.40	0.40	0.23	0.02	0.09
HUMANITIES HRS	17	0.03	0.09	0.23	0.02	0.07
LITERATURE HRS	17	0.03	0.12	0.23	0.02	0.01
MAG-NEWS HOURS	17	0.10	0.16	0.23	0.02	0.12
NOTES HOURS	17	0.17	0.44	0.23	0.02	0.43
ENGLISH PAGES	17	120.24	137.68	0.23	0.02	-0.11
MATH PAGES	17	26.65	46.25	0.23	0.02	-0.08
NAT SCI PAGES	17	26.71	33.21	0.23	0.02	0.09
SOC SCI PAGES	17	75.06	82.83	0.23	0.02	0.03
HUMANITIES PGS	17	4.41	12.35	0.23	0.02	0.08
LITERATURE PGS	17	16.76	65.33	0.23	0.02	0.01

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	17	269.82	180.91	1.99	0.55	0.33
TOTAL HOURS	17	1.67	1.07	1.99	0.55	0.03
REQUIRED PAGES	17	250.00	184.21	1.99	0.55	0.33
REQUIRED HOURS	17	1.29	0.81	1.99	0.55	0.02
UNREQD PAGES	17	19.82	48.18	1.99	0.55	-0.01
UNREQD HOURS	17	0.38	0.59	1.99	0.55	0.02
ENGLISH HOURS	17	0.44	0.40	1.99	0.55	0.10
MATH HOURS	17	0.26	0.39	1.99	0.55	0.21
NAT SCI HOURS	17	0.22	0.36	1.99	0.55	0.53
SOC SCI HOURS	17	0.40	0.40	1.99	0.55	-0.53
HUMANITIES HRS	17	0.03	0.09	1.99	0.55	-0.07
LITERATURE HRS	17	0.03	0.12	1.99	0.55	0.15
MAG-NEWS HOURS	17	0.10	0.16	1.99	0.55	-0.10
NOTES HOURS	17	0.17	0.44	1.99	0.55	-0.13
ENGLISH PAGES	17	120.24	137.68	1.99	0.55	0.41
MATH PAGES	17	26.65	46.25	1.99	0.55	0.40
NAT SCI PAGES	17	26.71	33.21	1.99	0.55	0.47
SOC SCI PAGES	17	75.06	82.83	1.99	0.55	-0.48
HUMANITIES PGS	17	4.41	12.35	1.99	0.55	-0.08
LITERATURE PGS	17	16.76	65.33	1.99	0.55	0.15

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 21

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	22	185.27	82.81	0.23	0.04	0.21
TOTAL HOURS	22	1.50	0.61	0.23	0.04	-0.21
REQUIRED PAGES	22	160.77	90.66	0.23	0.04	-0.02
REQUIRED HOURS	22	1.10	0.65	0.23	0.04	-0.36
UNREQD PAGES	22	24.50	44.49	0.23	0.04	0.43
UNREQD HOURS	22	0.40	0.35	0.23	0.04	0.30
ENGLISH HOURS	22	0.28	0.24	0.23	0.04	-0.33
MATH HOURS	22	0.21	0.48	0.23	0.04	0.24
NAT SCI HOURS	22	0.16	0.26	0.23	0.04	0.28
SOC SCI HOURS	22	0.39	0.34	0.23	0.04	-0.53
HUMANITIES HRS	22	0.10	0.21	0.23	0.04	-0.37
LITERATURE HRS	22	0.03	0.08	0.23	0.04	-0.04
MAG-NEWS HOURS	22	0.19	0.20	0.23	0.04	-0.03
NOTES HOURS	22	0.12	0.30	0.23	0.04	0.06
ENGLISH PAGES	22	52.64	45.64	0.23	0.04	-0.09
MATH PAGES	22	22.73	71.59	0.23	0.04	0.21
NAT SCI PAGES	22	23.86	41.32	0.23	0.04	0.32
SOC SCI PAGES	22	57.50	52.58	0.23	0.04	-0.31
HUMANITIES PGS	22	16.50	30.33	0.23	0.04	-0.08
LITERATURE PGS	22	12.05	36.14	0.23	0.04	0.33

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	22	185.27	82.81	2.28	0.76	-0.08
TOTAL HOURS	22	1.50	0.61	2.28	0.76	-0.16
REQUIRED PAGES	22	160.77	90.66	2.28	0.76	-0.22
REQUIRED HOURS	22	1.10	0.65	2.28	0.76	-0.34
UNREQD PAGES	22	24.50	44.49	2.28	0.76	0.31
UNREQD HOURS	22	0.40	0.35	2.28	0.76	0.33
ENGLISH HOURS	22	0.28	0.24	2.28	0.76	-0.04
MATH HOURS	22	0.21	0.48	2.28	0.76	-0.08
NAT SCI HOURS	22	0.16	0.26	2.28	0.76	-0.03
SOC SCI HOURS	22	0.39	0.34	2.28	0.76	-0.20
HUMANITIES HRS	22	0.10	0.21	2.28	0.76	-0.12
LITERATURE HRS	22	0.03	0.08	2.28	0.76	-0.25
MAG-NEWS HOURS	22	0.19	0.20	2.28	0.76	-0.16
NOTES HOURS	22	0.12	0.30	2.28	0.76	0.33
ENGLISH PAGES	22	52.64	45.64	2.28	0.76	0.01
MATH PAGES	22	22.73	71.59	2.28	0.76	-0.13
NAT SCI PAGES	22	23.86	41.32	2.28	0.76	0.01
SOC SCI PAGES	22	57.50	52.58	2.28	0.76	-0.08
HUMANITIES PGS	22	16.50	30.33	2.28	0.76	0.12
LITERATURE PGS	22	12.05	36.14	2.28	0.76	0.08

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 22

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	21	270.86	166.72	0.23	0.03	0.01
TOTAL HOURS	21	1.43	0.79	0.23	0.03	0.11
REQUIRED PAGES	21	194.67	119.39	0.23	0.03	0.35
REQUIRED HOURS	21	1.02	0.63	0.23	0.03	0.32
UNREQD PAGES	21	73.81	125.76	0.23	0.03	-0.36
UNREQD HOURS	21	0.41	0.48	0.23	0.03	-0.23
ENGLISH HOURS	21	0.30	0.23	0.23	0.03	0.03
MATH HOURS	21	0.15	0.26	0.23	0.03	0.11
NAT SCI HOURS	21	0.09	0.19	0.23	0.03	-0.09
SOC SCI HOURS	21	0.55	0.54	0.23	0.03	0.04
HUMANITIES HRS	21	0.05	0.10	0.23	0.03	-0.01
LITERATURE HRS	21	0.07	0.13	0.23	0.03	-0.16
MAG-NEWS HOURS	21	0.16	0.16	0.23	0.03	-0.01
NOTES HOURS	21	0.07	0.15	0.23	0.03	0.48
ENGLISH PAGES	21	74.14	80.25	0.23	0.03	-0.19
MATH PAGES	21	10.19	18.03	0.23	0.03	0.13
NAT SCI PAGES	21	11.33	23.96	0.23	0.03	-0.09
SOC SCI PAGES	21	115.52	132.45	0.23	0.03	0.06
HUMANITIES PGS	21	10.90	23.28	0.23	0.03	-0.07
LITERATURE PGS	21	32.33	67.30	0.23	0.03	-0.25

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	21	270.86	166.72	2.37	0.51	0.12
TOTAL HOURS	21	1.43	0.79	2.37	0.51	-0.10
REQUIRED PAGES	21	194.67	119.39	2.37	0.51	0.16
REQUIRED HOURS	21	1.02	0.63	2.37	0.51	0.05
UNREQD PAGES	21	73.81	125.76	2.37	0.51	-0.01
UNREQD HOURS	21	0.41	0.48	2.37	0.51	-0.24
ENGLISH HOURS	21	0.30	0.23	2.37	0.51	0.03
MATH HOURS	21	0.15	0.26	2.37	0.51	-0.08
NAT SCI HOURS	21	0.09	0.19	2.37	0.51	-0.20
SOC SCI HOURS	21	0.55	0.54	2.37	0.51	-0.02
HUMANITIES HRS	21	0.05	0.10	2.37	0.51	-0.29
LITERATURE HRS	21	0.07	0.13	2.37	0.51	0.20
MAG-NEWS HOURS	21	0.16	0.16	2.37	0.51	-0.30
NOTES HOURS	21	0.07	0.15	2.37	0.51	0.23
ENGLISH PAGES	21	74.14	80.25	2.37	0.51	-0.18
MATH PAGES	21	10.19	18.03	2.37	0.51	-0.18
NAT SCI PAGES	21	11.33	23.96	2.37	0.51	-0.23
SOC SCI PAGES	21	115.52	132.45	2.37	0.51	0.11
HUMANITIES PGS	21	10.90	23.28	2.37	0.51	0.05
LITERATURE PGS	21	32.33	67.30	2.37	0.51	0.03

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 23

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	37	189.00	141.68	0.23	0.03	0.02
TOTAL HOURS	37	1.59	0.81	0.23	0.03	0.12
REQUIRED PAGES	37	156.78	112.20	0.23	0.03	0.17
REQUIRED HOURS	37	1.23	0.72	0.23	0.03	0.23
UNREQD PAGES	37	32.22	98.93	0.23	0.03	-0.16
UNREQD HOURS	37	0.36	0.44	0.23	0.03	-0.16
ENGLISH HOURS	37	0.24	0.24	0.23	0.03	-0.37
MATH HOURS	37	0.26	0.37	0.23	0.03	0.45
NAT SCI HOURS	37	0.22	0.30	0.23	0.03	0.32
SOC SCI HOURS	37	0.40	0.46	0.23	0.03	-0.01
HUMANITIES HRS	37	0.07	0.21	0.23	0.03	0.02
LITERATURE HRS	37	0.09	0.29	0.23	0.03	-0.17
MAG-NEWS HOURS	37	0.18	0.20	0.23	0.03	0.04
NOTES HOURS	37	0.11	0.21	0.23	0.03	-0.20
ENGLISH PAGES	37	35.97	48.76	0.23	0.03	-0.20
MATH PAGES	37	19.16	23.32	0.23	0.03	0.46
NAT SCI PAGES	37	33.08	55.43	0.23	0.03	0.24
SOC SCI PAGES	37	64.70	76.23	0.23	0.03	0.06
HUMANITIES PGS	37	9.03	28.32	0.23	0.03	-0.01
LITERATURE PGS	37	27.05	99.06	0.23	0.03	-0.16

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	37	189.00	141.68	2.55	0.71	-0.02
TOTAL HOURS	37	1.59	0.81	2.55	0.71	0.11
REQUIRED PAGES	37	156.78	112.20	2.55	0.71	0.19
REQUIRED HOURS	37	1.23	0.72	2.55	0.71	0.29
UNREQD PAGES	37	32.22	98.93	2.55	0.71	-0.25
UNREQD HOURS	37	0.36	0.44	2.55	0.71	-0.26
ENGLISH HOURS	37	0.24	0.24	2.55	0.71	-0.12
MATH HOURS	37	0.26	0.37	2.55	0.71	0.23
NAT SCI HOURS	37	0.22	0.30	2.55	0.71	0.22
SOC SCI HOURS	37	0.40	0.46	2.55	0.71	-0.00
HUMANITIES HRS	37	0.07	0.21	2.55	0.71	0.17
LITERATURE HRS	37	0.09	0.29	2.55	0.71	-0.22
MAG-NEWS HOURS	37	0.18	0.20	2.55	0.71	-0.17
NOTES HOURS	37	0.11	0.21	2.55	0.71	0.21
ENGLISH PAGES	37	35.97	48.76	2.55	0.71	-0.05
MATH PAGES	37	19.16	23.32	2.55	0.71	-0.04
NAT SCI PAGES	37	33.08	55.43	2.55	0.71	0.27
SOC SCI PAGES	37	64.70	76.23	2.55	0.71	-0.00
HUMANITIES PGS	37	9.03	28.32	2.55	0.71	0.27
LITERATURE PGS	37	27.05	99.06	2.55	0.71	-0.23

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 24

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	30	224.47	228.90	0.22	0.04	0.33
TOTAL HOURS	30	1.44	0.92	0.22	0.04	0.13
REQUIRED PAGES	30	177.77	168.40	0.22	0.04	0.13
REQUIRED HOURS	30	0.95	0.71	0.22	0.04	-0.21
UNREQD PAGES	30	46.70	118.26	0.22	0.04	0.46
UNREQD HOURS	30	0.48	0.65	0.22	0.04	0.42
ENGLISH HOURS	30	0.18	0.23	0.22	0.04	-0.38
MATH HOURS	30	0.27	0.44	0.22	0.04	0.04
NAT SCI HOURS	30	0.07	0.22	0.22	0.04	-0.25
SOC SCI HOURS	30	0.37	0.41	0.22	0.04	-0.06
HUMANITIES HRS	30	0.05	0.10	0.22	0.04	-0.29
LITERATURE HRS	30	0.15	0.51	0.22	0.04	0.35
MAG-NEWS HOURS	30	0.24	0.33	0.22	0.04	0.38
NOTES HOURS	30	0.12	0.26	0.22	0.04	-0.02
ENGLISH PAGES	30	37.53	72.50	0.22	0.04	-0.19
MATH PAGES	30	27.97	55.25	0.22	0.04	0.09
NAT SCI PAGES	30	12.93	47.82	0.22	0.04	-0.03
SOC SCI PAGES	30	87.67	142.09	0.22	0.04	0.21
HUMANITIES PGS	30	16.43	45.35	0.22	0.04	0.09
LITERATURE PGS	30	42.27	131.96	0.22	0.04	0.39

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	30	224.47	228.90	2.14	0.57	0.39
TOTAL HOURS	30	1.44	0.92	2.14	0.57	0.24
REQUIRED PAGES	30	177.77	168.40	2.14	0.57	0.36
REQUIRED HOURS	30	0.95	0.71	2.14	0.57	0.19
UNREQD PAGES	30	46.70	118.26	2.14	0.57	0.24
UNREQD HOURS	30	0.48	0.65	2.14	0.57	0.14
ENGLISH HOURS	30	0.18	0.23	2.14	0.57	0.34
MATH HOURS	30	0.27	0.44	2.14	0.57	-0.12
NAT SCI HOURS	30	0.07	0.22	2.14	0.57	-0.28
SOC SCI HOURS	30	0.37	0.41	2.14	0.57	0.34
HUMANITIES HRS	30	0.05	0.10	2.14	0.57	-0.08
LITERATURE HRS	30	0.15	0.51	2.14	0.57	0.29
MAG-NEWS HOURS	30	0.24	0.33	2.14	0.57	0.07
NOTES HOURS	30	0.12	0.26	2.14	0.57	-0.15
ENGLISH PAGES	30	37.53	72.50	2.14	0.57	0.45
MATH PAGES	30	27.97	55.25	2.14	0.57	0.00
NAT SCI PAGES	30	12.93	47.82	2.14	0.57	-0.19
SOC SCI PAGES	30	87.67	142.09	2.14	0.57	0.22
HUMANITIES PGS	30	16.43	45.35	2.14	0.57	0.03
LITERATURE PGS	30	42.27	131.96	2.14	0.57	0.25

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES

OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 25

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	27	211.78	174.53	0.23	0.03	-0.06
TOTAL HOURS	27	1.52	1.03	0.23	0.03	-0.17
REQUIRED PAGES	27	184.30	172.75	0.23	0.03	-0.22
REQUIRED HOURS	27	1.21	0.89	0.23	0.03	-0.27
UNREQD PAGES	27	27.85	80.15	0.23	0.03	0.35
UNREQD HOURS	27	0.31	0.28	0.23	0.03	0.24
ENGLISH HOURS	27	0.37	0.38	0.23	0.03	-0.17
MATH HOURS	27	0.32	0.43	0.23	0.03	-0.32
NAT SCI HOURS	27	0.15	0.36	0.23	0.03	0.05
SOC SCI HOURS	27	0.31	0.49	0.23	0.03	-0.20
HUMANITIES HRS	27	0.11	0.27	0.23	0.03	0.12
LITERATURE HRS	27	0.05	0.19	0.23	0.03	0.35
MAG-NEWS HOURS	27	0.18	0.15	0.23	0.03	0.10
NOTES HOURS	27	0.04	0.08	0.23	0.03	-0.09
ENGLISH PAGES	27	76.41	114.89	0.23	0.03	-0.11
MATH PAGES	27	23.30	36.77	0.23	0.03	-0.43
NAT SCI PAGES	27	22.33	58.34	0.23	0.03	0.13
SOC SCI PAGES	27	58.07	96.83	0.23	0.03	-0.18
HUMANITIES PGS	27	10.93	33.44	0.23	0.03	0.05
LITERATURE PGS	27	20.74	78.94	0.23	0.03	0.33

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	27	211.78	174.53	2.40	0.54	0.43
TOTAL HOURS	27	1.52	1.03	2.40	0.54	0.22
REQUIRED PAGES	27	184.30	172.75	2.40	0.54	0.39
REQUIRED HOURS	27	1.21	0.89	2.40	0.54	0.22
UNREQD PAGES	27	27.85	80.15	2.40	0.54	0.09
UNREQD HOURS	27	0.31	0.28	2.40	0.54	0.10
ENGLISH HOURS	27	0.37	0.38	2.40	0.54	-0.01
MATH HOURS	27	0.32	0.43	2.40	0.54	-0.17
NAT SCI HOURS	27	0.15	0.36	2.40	0.54	0.41
SOC SCI HOURS	27	0.31	0.49	2.40	0.54	0.21
HUMANITIES HRS	27	0.11	0.27	2.40	0.54	0.01
LITERATURE HRS	27	0.05	0.19	2.40	0.54	0.11
MAG-NEWS HOURS	27	0.18	0.15	2.40	0.54	0.11
NOTES HOURS	27	0.04	0.08	2.40	0.54	0.13
ENGLISH PAGES	27	76.41	114.89	2.40	0.54	0.13
MATH PAGES	27	23.30	36.77	2.40	0.54	-0.11
NAT SCI PAGES	27	22.33	58.34	2.40	0.54	0.39
SOC SCI PAGES	27	58.07	96.83	2.40	0.54	0.35
HUMANITIES PGS	27	10.93	33.44	2.40	0.54	-0.05
LITERATURE PGS	27	20.74	78.94	2.40	0.54	0.11

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 26

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	28	290.21	313.09	0.24	0.04	0.08
TOTAL HOURS	28	1.56	0.86	0.24	0.04	0.01
REQUIRED PAGES	28	236.29	322.68	0.24	0.04	0.05
REQUIRED HOURS	28	0.93	0.77	0.24	0.04	-0.14
UNREQD PAGES	28	53.93	81.09	0.24	0.04	0.13
UNREQD HOURS	28	0.63	0.55	0.24	0.04	0.20
ENGLISH HOURS	28	0.27	0.25	0.24	0.04	-0.04
MATH HOURS	28	0.16	0.29	0.24	0.04	-0.12
NAT SCI HOURS	28	0.17	0.30	0.24	0.04	0.05
SOC SCI HOURS	28	0.37	0.46	0.24	0.04	-0.29
HUMANITIES HRS	28	0.06	0.17	0.24	0.04	0.23
LITERATURE HRS	28	0.06	0.15	0.24	0.04	0.22
MAG-NEWS HOURS	28	0.35	0.39	0.24	0.04	0.32
NOTES HOURS	28	0.11	0.19	0.24	0.04	-0.15
ENGLISH PAGES	28	98.96	156.33	0.24	0.04	0.12
MATH PAGES	28	18.11	30.83	0.24	0.04	-0.04
NAT SCI PAGES	28	24.89	46.97	0.24	0.04	0.11
SOC SCI PAGES	28	103.68	166.72	0.24	0.04	-0.01
HUMANITIES PGS	28	18.61	51.16	0.24	0.04	0.42
LITERATURE PGS	28	33.68	97.72	0.24	0.04	-0.02

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	28	290.21	313.09	2.40	0.81	-0.44
TOTAL HOURS	28	1.56	0.86	2.40	0.81	0.13
REQUIRED PAGES	28	236.29	322.68	2.40	0.81	-0.46
REQUIRED HOURS	28	0.93	0.77	2.40	0.81	-0.05
UNREQD PAGES	28	53.93	81.09	2.40	0.81	0.11
UNREQD HOURS	28	0.63	0.55	2.40	0.81	0.27
ENGLISH HOURS	28	0.27	0.25	2.40	0.81	0.01
MATH HOURS	28	0.16	0.29	2.40	0.81	-0.01
NAT SCI HOURS	28	0.17	0.30	2.40	0.81	0.13
SOC SCI HOURS	28	0.37	0.46	2.40	0.81	-0.01
HUMANITIES HRS	28	0.06	0.17	2.40	0.81	-0.03
LITERATURE HRS	28	0.06	0.15	2.40	0.81	-0.22
MAG-NEWS HOURS	28	0.35	0.39	2.40	0.81	0.29
NOTES HOURS	28	0.11	0.19	2.40	0.81	0.01
ENGLISH PAGES	28	98.96	156.33	2.40	0.81	-0.33
MATH PAGES	28	18.11	30.83	2.40	0.81	-0.02
NAT SCI PAGES	28	24.89	46.97	2.40	0.81	0.27
SOC SCI PAGES	28	103.68	166.72	2.40	0.81	-0.34
HUMANITIES PGS	28	18.61	51.16	2.40	0.81	0.01
LITERATURE PGS	28	33.68	97.72	2.40	0.81	-0.40

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              PRODUCT-MOMENT CORRELATION COEFFICIENTS
                  FOR PAGES AND HOURS OF READING
         VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
            OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

                          W E E K   2 7

      Y IS ACT

                        NUMBER               STD                 STD
                          IN       MEAN      DEV       MEAN      DEV       CORR
                        SAMPLE       X        X          Y        Y        COEFF

 TOTAL PAGES              17     165.53    105.53      0.24      0.03      0.38
 TOTAL HOURS              17       1.28      0.59      0.24      0.03     -0.37
 REQUIRED PAGES           17     128.12     93.52      0.24      0.03      0.03
 REQUIRED HOURS           17       0.88      0.58      0.24      0.03     -0.46
 UNREQD PAGES             17      37.41     98.43      0.24      0.03      0.38
 UNREQD HOURS             17       0.39      0.33      0.24      0.03      0.17
 ENGLISH HOURS            17       0.27      0.35      0.24      0.03     -0.43
 MATH HOURS               17       0.14      0.16      0.24      0.03      0.19
 NAT SCI HOURS            17       0.12      0.26      0.24      0.03      0.04
 SOC SCI HOURS            17       0.32      0.45      0.24      0.03     -0.17
 HUMANITIES HRS           17       0.06      0.10      0.24      0.03      0.28
 LITERATURE HRS           17       0.03      0.09      0.24      0.03      0.33
 MAG-NEWS HOURS           17       0.27      0.23      0.24      0.03     -0.43
 NOTES HOURS              17       0.03      0.07      0.24      0.03      0.08
 ENGLISH PAGES            17      44.53     50.06      0.24      0.03     -0.05
 MATH PAGES               17      13.00     16.41      0.24      0.03      0.13
 NAT SCI PAGES            17      10.29     23.81      0.24      0.03      0.18
 SOC SCI PAGES            17      63.82     84.13      0.24      0.03     -0.09
 HUMANITIES PGS           17      10.82     23.89      0.24      0.03      0.50
 LITERATURE PGS           17      23.06     78.51      0.24      0.03      0.40

      Y IS GPA

                        NUMBER               STD                 STD
                          IN       MEAN      DEV       MEAN      DEV       CORR
                        SAMPLE       X        X          Y        Y        COEFF

 TOTAL PAGES              17     165.53    105.53      2.36      0.55      0.12
 TOTAL HOURS              17       1.28      0.59      2.36      0.55      0.31
 REQUIRED PAGES           17     128.12     93.52      2.36      0.55     -0.36
 REQUIRED HOURS           17       0.88      0.58      2.36      0.55      0.05
 UNREQD PAGES             17      37.41     98.43      2.36      0.55      0.47
 UNREQD HOURS             17       0.39      0.33      2.36      0.55      0.48
 ENGLISH HOURS            17       0.27      0.35      2.36      0.55     -0.11
 MATH HOURS               17       0.14      0.16      2.36      0.55      0.17
 NAT SCI HOURS            17       0.12      0.26      2.36      0.55      0.54
 SOC SCI HOURS            17       0.32      0.45      2.36      0.55      0.00
 HUMANITIES HRS           17       0.06      0.10      2.36      0.55     -0.20
 LITERATURE HRS           17       0.03      0.09      2.36      0.55      0.56
 MAG-NEWS HOURS           17       0.27      0.23      2.36      0.55     -0.03
 NOTES HOURS              17       0.03      0.07      2.36      0.55     -0.20
 ENGLISH PAGES            17      44.53     50.06      2.36      0.55     -0.40
 MATH PAGES               17      13.00     16.41      2.36      0.55      0.05
 NAT SCI PAGES            17      10.29     23.81      2.36      0.55      0.59
 SOC SCI PAGES            17      63.82     84.13      2.36      0.55     -0.08
 HUMANITIES PGS           17      10.82     23.89      2.36      0.55     -0.47
 LITERATURE PGS           17      23.06     78.51      2.36      0.55      0.45
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PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 28

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	9	417.11	235.86	0.22	0.03	0.45
TOTAL HOURS	9	2.24	0.88	0.22	0.03	0.41
REQUIRED PAGES	9	342.44	236.03	0.22	0.03	0.31
REQUIRED HOURS	9	1.80	1.06	0.22	0.03	0.29
UNREQD PAGES	9	74.67	120.71	0.22	0.03	0.27
UNREQD HOURS	9	0.44	0.55	0.22	0.03	0.10
ENGLISH HOURS	9	0.24	0.42	0.22	0.03	-0.53
MATH HOURS	9	0.38	0.59	0.22	0.03	0.38
NAT SCI HOURS	9	0.10	0.23	0.22	0.03	0.80
SOC SCI HOURS	9	0.72	0.36	0.22	0.03	-0.67
HUMANITIES HRS	9	0.15	0.25	0.22	0.03	0.18
LITERATURE HRS	9	0.09	0.19	0.22	0.03	0.81
MAG-NEWS HOURS	9	0.11	0.13	0.22	0.03	0.89
NOTES HOURS	9	0.44	0.90	0.22	0.03	0.10
ENGLISH PAGES	9	46.22	69.05	0.22	0.03	-0.50
MATH PAGES	9	74.44	115.86	0.22	0.03	0.52
NAT SCI PAGES	9	26.11	63.93	0.22	0.03	0.82
SOC SCI PAGES	9	187.89	187.61	0.22	0.03	-0.35
HUMANITIES PGS	9	43.33	74.24	0.22	0.03	0.19
LITERATURE PGS	9	39.11	93.65	0.22	0.03	0.84

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	9	417.11	235.86	2.06	0.36	-0.36
TOTAL HOURS	9	2.24	0.88	2.06	0.36	-0.22
REQUIRED PAGES	9	342.44	236.03	2.06	0.36	-0.04
REQUIRED HOURS	9	1.80	1.06	2.06	0.36	0.15
UNREQD PAGES	9	74.67	120.71	2.06	0.36	-0.63
UNREQD HOURS	9	0.44	0.55	2.06	0.36	-0.64
ENGLISH HOURS	9	0.24	0.42	2.06	0.36	0.29
MATH HOURS	9	0.38	0.59	2.06	0.36	-0.68
NAT SCI HOURS	9	0.10	0.23	2.06	0.36	-0.37
SOC SCI HOURS	9	0.72	0.36	2.06	0.36	0.39
HUMANITIES HRS	9	0.15	0.25	2.06	0.36	0.55
LITERATURE HRS	9	0.09	0.19	2.06	0.36	-0.31
MAG-NEWS HOURS	9	0.11	0.13	2.06	0.36	0.01
NOTES HOURS	9	0.44	0.90	2.06	0.36	-0.06
ENGLISH PAGES	9	46.22	69.05	2.06	0.36	0.11
MATH PAGES	9	74.44	115.86	2.06	0.36	-0.65
NAT SCI PAGES	9	26.11	63.93	2.06	0.36	-0.35
SOC SCI PAGES	9	187.89	187.61	2.06	0.36	-0.02
HUMANITIES PGS	9	43.33	74.24	2.06	0.36	0.54
LITERATURE PGS	9	39.11	93.65	2.06	0.36	-0.32

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 15

Y IS ACT

	NUMBER IN SAMPLE	MEAN X.	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	179.77	115.89	0.23	0.04	-0.15
TOTAL HOURS	26	1.31	0.81	0.23	0.04	-0.37
REQUIRED PAGES	26	132.69	63.25	0.23	0.04	-0.25
REQUIRED HOURS	26	0.99	0.66	0.23	0.04	-0.39
UNREQD PAGES	26	47.08	82.22	0.23	0.04	-0.02
UNREQD HOURS	26	0.32	0.26	0.23	0.04	-0.15
ENGLISH HOURS	26	0.34	0.28	0.23	0.04	-0.17
MATH HOURS	26	0.23	0.30	0.23	0.04	-0.13
NAT SCI HOURS	26	0.05	0.10	0.23	0.04	-0.16
SOC SCI HOURS	26	0.36	0.70	0.23	0.04	-0.27
HUMANITIES HRS	26	0.07	0.14	0.23	0.04	0.13
LITERATURE HRS	26	0.07	0.17	0.23	0.04	-0.03
MAG-NEWS HOURS	26	0.19	0.19	0.23	0.04	-0.12
NOTES HOURS	26	0.00	0.01	0.23	0.04	0.27
ENGLISH PAGES	26	51.77	52.29	0.23	0.04	-0.07
MATH PAGES	26	30.92	44.06	0.23	0.04	-0.06
NAT SCI PAGES	26	6.88	13.27	0.23	0.04	0.04
SOC SCI PAGES	26	47.69	64.17	0.23	0.04	-0.27
HUMANITIES PGS	26	10.96	22.00	0.23	0.04	0.12
LITERATURE PGS	26	29.46	76.23	0.23	0.04	0.05

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	185.66	120.37	2.13	0.63	0.14
TOTAL HOURS	29	1.29	0.77	2.13	0.63	0.13
REQUIRED PAGES	29	131.66	60.31	2.13	0.63	0.21
REQUIRED HOURS	29	0.96	0.64	2.13	0.63	0.15
UNREQD PAGES	29	54.00	95.73	2.13	0.63	0.04
UNREQD HOURS	29	0.33	0.27	2.13	0.63	0.00
ENGLISH HOURS	29	0.33	0.27	2.13	0.63	-0.13
MATH HOURS	29	0.21	0.29	2.13	0.63	0.27
NAT SCI HOURS	29	0.06	0.12	2.13	0.63	-0.07
SOC SCI HOURS	29	0.34	0.67	2.13	0.63	0.07
HUMANITIES HRS	29	0.07	0.14	2.13	0.63	0.04
LITERATURE HRS	29	0.08	0.20	2.13	0.63	0.10
MAG-NEWS HOURS	29	0.19	0.18	2.13	0.63	-0.07
NOTES HOURS	29	0.00	0.01	2.13	0.63	0.12
ENGLISH PAGES	29	52.00	51.03	2.13	0.63	-0.19
MATH PAGES	29	27.93	42.65	2.13	0.63	0.25
NAT SCI PAGES	29	8.76	17.82	2.13	0.63	0.01
SOC SCI PAGES	29	46.52	61.40	2.13	0.63	0.16
HUMANITIES PGS	29	10.38	21.04	2.13	0.63	-0.08
LITERATURE PGS	29	38.21	92.53	2.13	0.63	0.09

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 16

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	206.54	176.68	0.23	0.04	0.07
TOTAL HOURS	26	1.29	0.62	0.23	0.04	-0.56
REQUIRED PAGES	26	151.58	77.13	0.23	0.04	-0.38
REQUIRED HOURS	26	1.00	0.58	0.23	0.04	-0.63
UNREQD PAGES	26	55.35	145.46	0.23	0.04	0.27
UNREQD HOURS	26	0.28	0.31	0.23	0.04	0.11
ENGLISH HOURS	26	0.50	0.40	0.23	0.04	-0.67
MATH HOURS	26	0.20	0.22	0.23	0.04	-0.09
NAT SCI HOURS	26	0.07	0.11	0.23	0.04	-0.14
SOC SCI HOURS	26	0.23	0.35	0.23	0.04	-0.19
HUMANITIES HRS	26	0.04	0.09	0.23	0.04	0.07
LITERATURE HRS	26	0.04	0.11	0.23	0.04	0.33
MAG-NEWS HOURS	26	0.19	0.27	0.23	0.04	-0.05
NOTES HOURS	26	0.00	0.01	0.23	0.04	0.21
ENGLISH PAGES	26	93.96	99.88	0.23	0.04	-0.28
MATH PAGES	26	22.69	27.38	0.23	0.04	-0.02
NAT SCI PAGES	26	10.65	16.38	0.23	0.04	0.01
SOC SCI PAGES	26	34.23	49.98	0.23	0.04	-0.08
HUMANITIES PGS	26	6.92	13.90	0.23	0.04	-0.03
LITERATURE PGS	26	36.85	130.82	0.23	0.04	0.33

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	204.21	168.93	2.10	0.62	-0.02
TOTAL HOURS	29	1.28	0.59	2.10	0.62	-0.14
REQUIRED PAGES	29	149.97	73.37	2.10	0.62	-0.11
REQUIRED HOURS	29	0.98	0.56	2.10	0.62	-0.15
UNREQD PAGES	29	54.59	139.26	2.10	0.62	0.01
UNREQD HOURS	29	0.27	0.30	2.10	0.62	0.01
ENGLISH HOURS	29	0.48	0.39	2.10	0.62	-0.26
MATH HOURS	29	0.18	0.22	2.10	0.62	0.08
NAT SCI HOURS	29	0.09	0.18	2.10	0.62	0.07
SOC SCI HOURS	29	0.23	0.33	2.10	0.62	-0.06
HUMANITIES HRS	29	0.05	0.10	2.10	0.62	0.00
LITERATURE HRS	29	0.05	0.11	2.10	0.62	0.13
MAG-NEWS HOURS	29	0.16	0.25	2.10	0.62	0.07
NOTES HOURS	29	0.00	0.01	2.10	0.62	0.26
ENGLISH PAGES	29	89.86	96.70	2.10	0.62	-0.30
MATH PAGES	29	20.45	26.76	2.10	0.62	0.11
NAT SCI PAGES	29	13.59	25.09	2.10	0.62	0.10
SOC SCI PAGES	29	34.45	47.51	2.10	0.62	-0.02
HUMANITIES PGS	29	6.97	13.58	2.10	0.62	0.18
LITERATURE PGS	29	37.79	125.65	2.10	0.62	0.15

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 17

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	25	243.68	189.63	0.23	0.04	0.12
TOTAL HOURS	25	1.61	0.70	0.23	0.04	-0.50
REQUIRED PAGES	25	161.84	74.11	0.23	0.04	-0.19
REQUIRED HOURS	25	1.09	0.49	0.23	0.04	-0.64
UNREQD PAGES	25	81.84	149.21	0.23	0.04	0.25
UNREQD HOURS	25	0.52	0.43	0.23	0.04	-0.09
ENGLISH HOURS	25	0.48	0.30	0.23	0.04	-0.69
MATH HOURS	25	0.23	0.29	0.23	0.04	-0.06
NAT SCI HOURS	25	0.06	0.11	0.23	0.04	0.02
SOC SCI HOURS	25	0.34	0.47	0.23	0.04	-0.30
HUMANITIES HRS	25	0.05	0.10	0.23	0.04	0.06
LITERATURE HRS	25	0.12	0.25	0.23	0.04	0.22
MAG-NEWS HOURS	25	0.20	0.22	0.23	0.04	-0.16
NOTES HOURS	25	0.11	0.37	0.23	0.04	-0.03
ENGLISH PAGES	25	81.88	65.67	0.23	0.04	-0.21
MATH PAGES	25	27.84	42.82	0.23	0.04	0.06
NAT SCI PAGES	25	7.72	14.15	0.23	0.04	0.08
SOC SCI PAGES	25	55.36	82.52	0.23	0.04	-0.11
HUMANITIES PGS	25	7.84	15.02	0.23	0.04	-0.05
LITERATURE PGS	25	61.68	146.45	0.23	0.04	0.30

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	28	244.68	182.29	2.09	0.62	0.20
TOTAL HOURS	28	1.59	0.67	2.09	0.62	0.24
REQUIRED PAGES	28	163.25	73.67	2.09	0.62	0.20
REQUIRED HOURS	28	1.08	0.48	2.09	0.62	-0.02
UNREQD PAGES	28	81.79	145.58	2.09	0.62	0.15
UNREQD HOURS	28	0.51	0.42	2.09	0.62	0.42
ENGLISH HOURS	28	0.47	0.30	2.09	0.62	-0.14
MATH HOURS	28	0.21	0.29	2.09	0.62	0.12
NAT SCI HOURS	28	0.10	0.24	2.09	0.62	0.15
SOC SCI HOURS	28	0.33	0.44	2.09	0.62	-0.13
HUMANITIES HRS	28	0.05	0.10	2.09	0.62	0.15
LITERATURE HRS	28	0.12	0.24	2.09	0.62	0.22
MAG-NEWS HOURS	28	0.21	0.21	2.09	0.62	-0.12
NOTES HOURS	28	0.10	0.35	2.09	0.62	0.44
ENGLISH PAGES	28	78.82	64.02	2.09	0.62	-0.04
MATH PAGES	28	24.93	41.33	2.09	0.62	0.18
NAT SCI PAGES	28	15.00	42.98	2.09	0.62	0.10
SOC SCI PAGES	28	53.54	78.23	2.09	0.62	-0.07
HUMANITIES PGS	28	8.07	14.95	2.09	0.62	0.10
LITERATURE PGS	28	63.57	143.28	2.09	0.62	0.21

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES

PAID FRESHMEN

WEEK 18

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	180.73	102.57	0.23	0.04	-0.05
TOTAL HOURS	26	1.39	0.67	0.23	0.04	-0.53
REQUIRED PAGES	26	144.77	74.00	0.23	0.04	-0.21
REQUIRED HOURS	26	0.90	0.54	0.23	0.04	-0.40
UNREQD PAGES	26	35.96	61.12	0.23	0.04	0.17
UNREQD HOURS	26	0.49	0.39	0.23	0.04	-0.34
ENGLISH HOURS	26	0.40	0.25	0.23	0.04	-0.32
MATH HOURS	26	0.18	0.24	0.23	0.04	-0.20
NAT SCI HOURS	26	0.09	0.16	0.23	0.04	-0.23
SOC SCI HOURS	26	0.31	0.41	0.23	0.04	-0.31
HUMANITIES HRS	26	0.02	0.05	0.23	0.04	-0.04
LITERATURE HRS	26	0.03	0.08	0.23	0.04	0.35
MAG-NEWS HOURS	26	0.24	0.25	0.23	0.04	-0.22
NOTES HOURS	26	0.11	0.23	0.23	0.04	-0.14
ENGLISH PAGES	26	70.62	40.80	0.23	0.04	-0.12
MATH PAGES	26	20.12	28.97	0.23	0.04	-0.13
NAT SCI PAGES	26	16.15	28.56	0.23	0.04	-0.24
SOC SCI PAGES	26	50.19	70.15	0.23	0.04	-0.11
HUMANITIES PGS	26	4.88	13.28	0.23	0.04	-0.18
LITERATURE PGS	26	18.42	56.29	0.23	0.04	0.35

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	180.90	100.37	2.10	0.62	0.06
TOTAL HOURS	29	1.39	0.64	2.10	0.62	-0.02
REQUIRED PAGES	29	147.86	74.33	2.10	0.62	-0.08
REQUIRED HOURS	29	0.93	0.53	2.10	0.62	-0.24
UNREQD PAGES	29	33.03	58.57	2.10	0.62	0.19
UNREQD HOURS	29	0.47	0.38	2.10	0.62	0.30
ENGLISH HOURS	29	0.40	0.25	2.10	0.62	-0.17
MATH HOURS	29	0.17	0.23	2.10	0.62	0.24
NAT SCI HOURS	29	0.12	0.23	2.10	0.62	-0.17
SOC SCI HOURS	29	0.30	0.39	2.10	0.62	-0.17
HUMANITIES HRS	29	0.02	0.05	2.10	0.62	-0.12
LITERATURE HRS	29	0.03	0.08	2.10	0.62	0.26
MAG-NEWS HOURS	29	0.23	0.24	2.10	0.62	-0.05
NOTES HOURS	29	0.13	0.25	2.10	0.62	0.31
ENGLISH PAGES	29	72.97	47.23	2.10	0.62	-0.10
MATH PAGES	29	18.28	27.98	2.10	0.62	0.24
NAT SCI PAGES	29	18.45	32.87	2.10	0.62	-0.19
SOC SCI PAGES	29	48.34	66.79	2.10	0.62	-0.02
HUMANITIES PGS	29	5.38	13.40	2.10	0.62	-0.11
LITERATURE PGS	29	20.62	56.64	2.10	0.62	0.16

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES

PAID FRESHMEN

WEEK 19

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	284.73	175.02	0.23	0.04	-0.33
TOTAL HOURS	26	1.65	0.80	0.23	0.04	-0.55
REQUIRED PAGES	26	254.42	183.07	0.23	0.04	-0.31
REQUIRED HOURS	26	1.22	0.76	0.23	0.04	-0.48
UNREQD PAGES	26	30.31	59.19	0.23	0.04	-0.01
UNREQD HOURS	26	0.43	0.34	0.23	0.04	-0.21
ENGLISH HOURS	26	0.54	0.54	0.23	0.04	-0.52
MATH HOURS	26	0.23	0.26	0.23	0.04	-0.03
NAT SCI HOURS	26	0.12	0.21	0.23	0.04	0.02
SOC SCI HOURS	26	0.33	0.47	0.23	0.04	-0.21
HUMANITIES HRS	26	0.10	0.14	0.23	0.04	-0.23
LITERATURE HRS	26	0.04	0.12	0.23	0.04	0.08
MAG-NEWS HOURS	26	0.22	0.21	0.23	0.04	-0.26
NOTES HOURS	26	0.06	0.14	0.23	0.04	0.15
ENGLISH PAGES	26	142.73	155.27	0.23	0.04	-0.26
MATH PAGES	26	26.73	31.85	0.23	0.04	-0.09
NAT SCI PAGES	26	17.35	31.17	0.23	0.04	-0.00
SOC SCI PAGES	26	52.23	69.42	0.23	0.04	-0.05
HUMANITIES PGS	26	30.69	64.69	0.23	0.04	-0.24
LITERATURE PGS	26	15.04	44.43	0.23	0.04	0.11

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	287.79	168.29	2.10	0.62	-0.04
TOTAL HOURS	29	1.62	0.79	2.10	0.62	-0.06
REQUIRED PAGES	29	248.14	181.14	2.10	0.62	-0.03
REQUIRED HOURS	29	1.16	0.75	2.10	0.62	-0.09
UNREQD PAGES	29	42.79	80.34	2.10	0.62	-0.06
UNREQD HOURS	29	0.46	0.40	2.10	0.62	0.06
ENGLISH HOURS	29	0.49	0.53	2.10	0.62	-0.16
MATH HOURS	29	0.21	0.25	2.10	0.62	0.22
NAT SCI HOURS	29	0.11	0.20	2.10	0.62	0.24
SOC SCI HOURS	29	0.37	0.49	2.10	0.62	-0.18
HUMANITIES HRS	29	0.10	0.14	2.10	0.62	0.04
LITERATURE HRS	29	0.05	0.13	2.10	0.62	0.03
MAG-NEWS HOURS	29	0.21	0.21	2.10	0.62	-0.05
NOTES HOURS	29	0.07	0.17	2.10	0.62	0.16
ENGLISH PAGES	29	127.97	153.31	2.10	0.62	-0.04
MATH PAGES	29	24.07	31.17	2.10	0.62	0.18
NAT SCI PAGES	29	16.07	29.84	2.10	0.62	0.25
SOC SCI PAGES	29	71.28	100.02	2.10	0.62	-0.16
HUMANITIES PGS	29	33.97	64.33	2.10	0.62	-0.06
LITERATURE PGS	29	17.62	46.46	2.10	0.62	0.08

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 20

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	245.46	122.29	0.23	0.04	-0.20
TOTAL HOURS	26	1.58	0.83	0.23	0.04	-0.56
REQUIRED PAGES	26	217.85	105.00	0.23	0.04	-0.43
REQUIRED HOURS	26	1.17	0.74	0.23	0.04	-0.58
UNREQD PAGES	26	27.62	86.46	0.23	0.04	0.24
UNREQD HOURS	26	0.40	0.31	0.23	0.04	-0.15
ENGLISH HOURS	26	0.46	0.34	0.23	0.04	-0.57
MATH HOURS	26	0.21	0.28	0.23	0.04	-0.07
NAT SCI HOURS	26	0.13	0.20	0.23	0.04	-0.12
SOC SCI HOURS	26	0.33	0.49	0.23	0.04	-0.40
HUMANITIES HRS	26	0.05	0.10	0.23	0.04	0.08
LITERATURE HRS	26	0.04	0.12	0.23	0.04	0.23
MAG-NEWS HOURS	26	0.23	0.22	0.23	0.04	-0.21
NOTES HOURS	26	0.13	0.23	0.23	0.04	-0.10
ENGLISH PAGES	26	100.19	94.22	0.23	0.04	-0.23
MATH PAGES	26	27.31	38.31	0.23	0.04	0.00
NAT SCI PAGES	26	23.00	38.03	0.23	0.04	-0.05
SOC SCI PAGES	26	55.88	79.70	0.23	0.04	-0.38
HUMANITIES PGS	26	18.27	39.39	0.23	0.04	0.02
LITERATURE PGS	26	14.69	64.55	0.23	0.04	0.33

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	268.79	162.58	2.10	0.62	0.18
TOTAL HOURS	29	1.57	0.80	2.10	0.62	0.11
REQUIRED PAGES	29	242.17	151.67	2.10	0.62	0.10
REQUIRED HOURS	29	1.14	0.71	2.10	0.62	0.09
UNREQD PAGES	29	26.62	82.02	2.10	0.62	0.16
UNREQD HOURS	29	0.42	0.32	2.10	0.62	0.08
ENGLISH HOURS	29	0.41	0.35	2.10	0.62	0.14
MATH HOURS	29	0.19	0.27	2.10	0.62	0.16
NAT SCI HOURS	29	0.13	0.20	2.10	0.62	0.14
SOC SCI HOURS	29	0.33	0.47	2.10	0.62	-0.16
HUMANITIES HRS	29	0.07	0.12	2.10	0.62	0.12
LITERATURE HRS	29	0.04	0.11	2.10	0.62	0.12
MAG-NEWS HOURS	29	0.25	0.23	2.10	0.62	-0.16
NOTES HOURS	29	0.14	0.23	2.10	0.62	0.20
ENGLISH PAGES	29	92.93	92.75	2.10	0.62	0.33
MATH PAGES	29	24.86	37.02	2.10	0.62	0.21
NAT SCI PAGES	29	27.52	48.92	2.10	0.62	0.11
SOC SCI PAGES	29	67.38	95.34	2.10	0.62	-0.21
HUMANITIES PGS	29	35.59	89.69	2.10	0.62	-0.04
LITERATURE PGS	29	15.03	61.26	2.10	0.62	0.08

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 21

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	199.04	137.83	0.23	0.04	-0.40
TOTAL HOURS	26	1.47	0.82	0.23	0.04	-0.57
REQUIRED PAGES	26	177.12	121.06	0.23	0.04	-0.54
REQUIRED HOURS	26	1.04	0.77	0.23	0.04	-0.51
UNREQD PAGES	26	22.38	74.67	0.23	0.04	0.12
UNREQD HOURS	26	0.43	0.33	0.23	0.04	-0.25
ENGLISH HOURS	26	0.36	0.33	0.23	0.04	-0.44
MATH HOURS	26	0.22	0.36	0.23	0.04	-0.05
NAT SCI HOURS	26	0.10	0.20	0.23	0.04	-0.24
SOC SCI HOURS	26	0.31	0.51	0.23	0.04	-0.35
HUMANITIES HRS	26	0.08	0.25	0.23	0.04	-0.07
LITERATURE HRS	26	0.05	0.14	0.23	0.04	0.11
MAG-NEWS HOURS	26	0.25	0.28	0.23	0.04	-0.16
NOTES HOURS	26	0.09	0.17	0.23	0.04	-0.19
ENGLISH PAGES	26	80.81	99.90	0.23	0.04	-0.36
MATH PAGES	26	24.50	37.47	0.23	0.04	0.02
NAT SCI PAGES	26	13.46	25.56	0.23	0.04	-0.27
SOC SCI PAGES	26	52.62	73.08	0.23	0.04	-0.34
HUMANITIES PGS	26	4.62	11.00	0.23	0.04	0.14
LITERATURE PGS	26	22.38	74.67	0.23	0.04	0.12

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	198.31	134.69	2.10	0.62	0.12
TOTAL HOURS	29	1.44	0.78	2.10	0.62	0.11
REQUIRED PAGES	29	174.28	118.86	2.10	0.62	0.07
REQUIRED HOURS	29	1.01	0.75	2.10	0.62	-0.01
UNREQD PAGES	29	24.45	72.69	2.10	0.62	0.11
UNREQD HOURS	29	0.42	0.33	2.10	0.62	0.29
ENGLISH HOURS	29	0.33	0.33	2.10	0.62	-0.04
MATH HOURS	29	0.21	0.35	2.10	0.62	0.17
NAT SCI HOURS	29	0.14	0.32	2.10	0.62	0.02
SOC SCI HOURS	29	0.29	0.49	2.10	0.62	-0.11
HUMANITIES HRS	29	0.07	0.24	2.10	0.62	-0.02
LITERATURE HRS	29	0.05	0.14	2.10	0.62	0.07
MAG-NEWS HOURS	29	0.23	0.28	2.10	0.62	0.13
NOTES HOURS	29	0.09	0.18	2.10	0.62	0.31
ENGLISH PAGES	29	74.41	96.67	2.10	0.62	0.13
MATH PAGES	29	22.59	36.03	2.10	0.62	0.23
NAT SCI PAGES	29	20.52	48.96	2.10	0.62	-0.03
SOC SCI PAGES	29	49.86	70.20	2.10	0.62	-0.11
HUMANITIES PGS	29	5.00	10.66	2.10	0.62	-0.04
LITERATURE PGS	29	24.45	72.69	2.10	0.62	0.11

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 22

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	226.35	172.68	0.23	0.04	0.02
TOTAL HOURS	26	1.75	0.83	0.23	0.04	-0.20
REQUIRED PAGES	26	189.23	145.78	0.23	0.04	-0.07
REQUIRED HOURS	26	1.19	0.82	0.23	0.04	-0.22
UNREQD PAGES	26	44.27	129.84	0.23	0.04	0.14
UNREQD HOURS	26	0.56	0.50	0.23	0.04	0.04
ENGLISH HOURS	26	0.32	0.26	0.23	0.04	-0.69
MATH HOURS	26	0.20	0.27	0.23	0.04	0.01
NAT SCI HOURS	26	0.18	0.28	0.23	0.04	-0.13
SOC SCI HOURS	26	0.43	0.60	0.23	0.04	-0.09
HUMANITIES HRS	26	0.03	0.10	0.23	0.04	0.37
LITERATURE HRS	26	0.12	0.26	0.23	0.04	0.30
MAG-NEWS HOURS	26	0.34	0.39	0.23	0.04	0.12
NOTES HOURS	26	0.09	0.19	0.23	0.04	-0.29
ENGLISH PAGES	26	55.65	67.70	0.23	0.04	-0.46
MATH PAGES	26	20.46	27.42	0.23	0.04	-0.03
NAT SCI PAGES	26	24.58	34.52	0.23	0.04	0.05
SOC SCI PAGES	26	65.92	94.93	0.23	0.04	0.01
HUMANITIES PGS	26	5.73	25.15	0.23	0.04	0.34
LITERATURE PGS	26	52.65	130.57	0.23	0.04	0.23

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	221.76	164.72	2.10	0.62	-0.11
TOTAL HOURS	29	1.72	0.79	2.10	0.62	-0.00
REQUIRED PAGES	29	187.21	139.00	2.10	0.62	-0.01
REQUIRED HOURS	29	1.16	0.79	2.10	0.62	-0.04
UNREQD PAGES	29	40.97	123.46	2.10	0.62	-0.06
UNREQD HOURS	29	0.56	0.48	2.10	0.62	0.07
ENGLISH HOURS	29	0.31	0.26	2.10	0.62	-0.13
MATH HOURS	29	0.19	0.26	2.10	0.62	0.17
NAT SCI HOURS	29	0.21	0.33	2.10	0.62	0.17
SOC SCI HOURS	29	0.42	0.57	2.10	0.62	-0.19
HUMANITIES HRS	29	0.02	0.09	2.10	0.62	0.00
LITERATURE HRS	29	0.11	0.25	2.10	0.62	0.04
MAG-NEWS HOURS	29	0.35	0.37	2.10	0.62	-0.01
NOTES HOURS	29	0.09	0.18	2.10	0.62	-0.30
ENGLISH PAGES	29	54.38	66.03	2.10	0.62	-0.08
MATH PAGES	29	18.97	26.48	2.10	0.62	0.07
NAT SCI PAGES	29	28.31	44.17	2.10	0.62	0.24
SOC SCI PAGES	29	65.97	89.94	2.10	0.62	-0.22
HUMANITIES PGS	29	5.14	23.87	2.10	0.62	-0.07
LITERATURE PGS	29	48.48	124.37	2.10	0.62	-0.02

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 23

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	201.92	179.15	0.23	0.04	0.01
TOTAL HOURS	26	1.46	0.80	0.23	0.04	-0.42
REQUIRED PAGES	26	159.04	127.13	0.23	0.04	-0.37
REQUIRED HOURS	26	1.06	0.77	0.23	0.04	-0.47
UNREQD PAGES	26	42.88	133.59	0.23	0.04	0.36
UNREQD HOURS	26	0.40	0.28	0.23	0.04	0.08
ENGLISH HOURS	26	0.39	0.36	0.23	0.04	-0.31
MATH HOURS	26	0.17	0.21	0.23	0.04	-0.17
NAT SCI HOURS	26	0.18	0.39	0.23	0.04	-0.13
SOC SCI HOURS	26	0.32	0.43	0.23	0.04	-0.38
HUMANITIES HRS	26	0.03	0.08	0.23	0.04	0.24
LITERATURE HRS	26	0.09	0.21	0.23	0.04	0.40
MAG-NEWS HOURS	26	0.13	0.21	0.23	0.04	-0.04
NOTES HOURS	26	0.10	0.18	0.23	0.04	-0.12
ENGLISH PAGES	26	60.46	74.06	0.23	0.04	-0.27
MATH PAGES	26	15.88	17.52	0.23	0.04	-0.14
NAT SCI PAGES	26	26.46	51.40	0.23	0.04	-0.12
SOC SCI PAGES	26	53.54	77.22	0.23	0.04	-0.26
HUMANITIES PGS	26	5.31	15.34	0.23	0.04	0.28
LITERATURE PGS	26	32.88	130.66	0.23	0.04	0.36

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	194.31	172.72	2.10	0.62	0.11
TOTAL HOURS	29	1.42	0.77	2.10	0.62	-0.06
REQUIRED PAGES	29	155.86	123.01	2.10	0.62	-0.09
REQUIRED HOURS	29	1.03	0.74	2.10	0.62	-0.09
UNREQD PAGES	29	38.45	127.16	2.10	0.62	0.24
UNREQD HOURS	29	0.40	0.28	2.10	0.62	0.07
ENGLISH HOURS	29	0.37	0.35	2.10	0.62	-0.11
MATH HOURS	29	0.16	0.21	2.10	0.62	0.07
NAT SCI HOURS	29	0.18	0.38	2.10	0.62	0.13
SOC SCI HOURS	29	0.30	0.42	2.10	0.62	-0.13
HUMANITIES HRS	29	0.04	0.10	2.10	0.62	-0.11
LITERATURE HRS	29	0.08	0.20	2.10	0.62	0.35
MAG-NEWS HOURS	29	0.14	0.21	2.10	0.62	-0.12
NOTES HOURS	29	0.10	0.19	2.10	0.62	-0.03
ENGLISH PAGES	29	57.76	71.10	2.10	0.62	-0.11
MATH PAGES	29	14.79	17.07	2.10	0.62	0.16
NAT SCI PAGES	29	25.03	49.18	2.10	0.62	0.10
SOC SCI PAGES	29	49.76	74.06	2.10	0.62	-0.06
HUMANITIES PGS	29	10.86	28.65	2.10	0.62	-0.11
LITERATURE PGS	29	29.48	124.12	2.10	0.62	0.19

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 24

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	154.73	107.70	0.23	0.04	0.06
TOTAL HOURS	26	1.46	0.65	0.23	0.04	-0.46
REQUIRED PAGES	26	140.08	94.57	0.23	0.04	-0.03
REQUIRED HOURS	26	1.02	0.68	0.23	0.04	-0.33
UNREQD PAGES	26	14.65	40.79	0.23	0.04	0.23
UNREQD HOURS	26	0.44	0.31	0.23	0.04	-0.25
ENGLISH HOURS	26	0.25	0.30	0.23	0.04	-0.19
MATH HOURS	26	0.13	0.19	0.23	0.04	-0.17
NAT SCI HOURS	26	0.17	0.31	0.23	0.04	-0.29
SOC SCI HOURS	26	0.42	0.53	0.23	0.04	-0.08
HUMANITIES HRS	26	0.05	0.09	0.23	0.04	0.03
LITERATURE HRS	26	0.03	0.07	0.23	0.04	0.16
MAG-NEWS HOURS	26	0.30	0.28	0.23	0.04	-0.02
NOTES HOURS	26	0.10	0.22	0.23	0.04	-0.36
ENGLISH PAGES	26	42.88	61.98	0.23	0.04	-0.00
MATH PAGES	26	15.88	23.09	0.23	0.04	-0.01
NAT SCI PAGES	26	18.12	30.82	0.23	0.04	-0.15
SOC SCI PAGES	26	62.88	79.71	0.23	0.04	0.01
HUMANITIES PGS	26	6.12	12.78	0.23	0.04	0.07
LITERATURE PGS	26	11.46	39.29	0.23	0.04	0.23

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	158.07	109.84	2.10	0.62	-0.15
TOTAL HOURS	29	1.44	0.63	2.10	0.62	-0.33
REQUIRED PAGES	29	142.66	98.30	2.10	0.62	-0.20
REQUIRED HOURS	29	1.00	0.68	2.10	0.62	-0.25
UNREQD PAGES	29	15.41	39.96	2.10	0.62	0.07
UNREQD HOURS	29	0.43	0.30	2.10	0.62	-0.13
ENGLISH HOURS	29	0.24	0.29	2.10	0.62	-0.30
MATH HOURS	29	0.12	0.18	2.10	0.62	-0.08
NAT SCI HOURS	29	0.20	0.35	2.10	0.62	0.10
SOC SCI HOURS	29	0.40	0.51	2.10	0.62	-0.18
HUMANITIES HRS	29	0.05	0.09	2.10	0.62	-0.09
LITERATURE HRS	29	0.03	0.08	2.10	0.62	-0.02
MAG-NEWS HOURS	29	0.28	0.28	2.10	0.62	-0.25
NOTES HOURS	29	0.09	0.21	2.10	0.62	0.18
ENGLISH PAGES	29	42.52	60.17	2.10	0.62	-0.17
MATH PAGES	29	14.34	22.33	2.10	0.62	-0.07
NAT SCI PAGES	29	22.38	41.69	2.10	0.62	0.10
SOC SCI PAGES	29	62.41	78.38	2.10	0.62	-0.12
HUMANITIES PGS	29	6.21	12.36	2.10	0.62	-0.11
LITERATURE PGS	29	13.17	39.64	2.10	0.62	0.01

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR PAGES AND HOURS OF READING VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES PAID FRESHMEN

WEEK 25

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	172.27	142.01	0.23	0.04	-0.08
TOTAL HOURS	26	1.48	0.94	0.23	0.04	-0.45
REQUIRED PAGES	26	142.96	117.85	0.23	0.04	-0.32
REQUIRED HOURS	26	1.03	0.90	0.23	0.04	-0.49
UNREQD PAGES	26	29.31	82.59	0.23	0.04	0.31
UNREQD HOURS	26	0.45	0.33	0.23	0.04	0.07
ENGLISH HOURS	26	0.32	0.31	0.23	0.04	-0.53
MATH HOURS	26	0.18	0.24	0.23	0.04	-0.01
NAT SCI HOURS	26	0.12	0.18	0.23	0.04	-0.21
SOC SCI HOURS	26	0.40	0.56	0.23	0.04	-0.43
HUMANITIES HRS	26	0.02	0.04	0.23	0.04	0.22
LITERATURE HRS	26	0.06	0.16	0.23	0.04	0.26
MAG-NEWS HOURS	26	0.31	0.20	0.23	0.04	-0.13
NOTES HOURS	26	0.08	0.19	0.23	0.04	-0.00
ENGLISH PAGES	26	49.88	53.71	0.23	0.04	-0.32
MATH PAGES	26	18.50	27.46	0.23	0.04	0.02
NAT SCI PAGES	26	15.81	22.30	0.23	0.04	0.10
SOC SCI PAGES	26	60.46	84.39	0.23	0.04	-0.28
HUMANITIES PGS	26	1.77	4.59	0.23	0.04	0.11
LITERATURE PGS	26	29.31	82.59	0.23	0.04	0.31

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	173.55	136.83	2.10	0.62	-0.02
TOTAL HOURS	29	1.45	0.90	2.10	0.62	-0.08
REQUIRED PAGES	29	141.66	112.19	2.10	0.62	-0.06
REQUIRED HOURS	29	1.01	0.86	2.10	0.62	-0.11
UNREQD PAGES	29	31.90	82.37	2.10	0.62	0.05
UNREQD HOURS	29	0.44	0.33	2.10	0.62	0.09
ENGLISH HOURS	29	0.30	0.30	2.10	0.62	-0.07
MATH HOURS	29	0.21	0.34	2.10	0.62	0.15
NAT SCI HOURS	29	0.11	0.17	2.10	0.62	0.06
SOC SCI HOURS	29	0.38	0.54	2.10	0.62	-0.26
HUMANITIES HRS	29	0.01	0.04	2.10	0.62	0.21
LITERATURE HRS	29	0.07	0.18	2.10	0.62	0.03
MAG-NEWS HOURS	29	0.29	0.20	2.10	0.62	-0.01
NOTES HOURS	29	0.08	0.18	2.10	0.62	0.10
ENGLISH PAGES	29	46.59	52.25	2.10	0.62	-0.08
MATH PAGES	29	16.59	26.61	2.10	0.62	0.26
NAT SCI PAGES	29	20.24	36.44	2.10	0.62	0.20
SOC SCI PAGES	29	59.31	80.86	2.10	0.62	-0.23
HUMANITIES PGS	29	2.03	4.83	2.10	0.62	0.10
LITERATURE PGS	29	31.90	82.37	2.10	0.62	0.05

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               PRODUCT-MOMENT CORRELATION COEFFICIENTS
                  FOR PAGES AND HOURS OF READING
        VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
                          PAID FRESHMEN

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      Y IS ACT

                     NUMBER               STD                   STD
                       IN      MEAN       DEV        MEAN       DEV      CORR
                     SAMPLE     X          X          Y          Y       COEFF

TOTAL PAGES            26     237.12     179.22      0.23       0.04     -0.10
TOTAL HOURS            26       1.45       0.86      0.23       0.04     -0.37
REQUIRED PAGES         26     172.35     153.27      0.23       0.04     -0.43
REQUIRED HOURS         26       1.00       0.81      0.23       0.04     -0.48
UNREQD PAGES           26      64.46     133.41      0.23       0.04      0.36
UNREQD HOURS           26       0.44       0.32      0.23       0.04      0.24
ENGLISH HOURS          26       0.37       0.37      0.23       0.04     -0.65
MATH HOURS             26       0.17       0.24      0.23       0.04     -0.16
NAT SCI HOURS          26       0.08       0.14      0.23       0.04      0.05
SOC SCI HOURS          26       0.38       0.55      0.23       0.04     -0.24
HUMANITIES HRS         26       0.03       0.10      0.23       0.04     -0.12
LITERATURE HRS         26       0.13       0.26      0.23       0.04      0.39
MAG-NEWS HOURS         26       0.22       0.19      0.23       0.04     -0.12
NOTES HOURS            26       0.08       0.14      0.23       0.04     -0.02
ENGLISH PAGES          26      76.96     115.36      0.23       0.04     -0.46
MATH PAGES             26      17.27      23.67      0.23       0.04     -0.11
NAT SCI PAGES          26      10.50      21.25      0.23       0.04      0.09
SOC SCI PAGES          26      65.54      90.59      0.23       0.04     -0.15
HUMANITIES PGS         26       2.62       7.46      0.23       0.04      0.14
LITERATURE PGS         26      63.50     133.78      0.23       0.04      0.35

      Y IS GPA

                     NUMBER               STD                   STD
                       IN      MEAN       DEV        MEAN       DEV      CORR
                     SAMPLE     X          X          Y          Y       COEFF

TOTAL PAGES            29     230.38     172.50      2.10       0.62      0.08
TOTAL HOURS            29       1.42       0.83      2.10       0.62     -0.03
REQUIRED PAGES         29     172.31     147.05      2.10       0.62     -0.04
REQUIRED HOURS         29       0.97       0.80      2.10       0.62     -0.02
UNREQD PAGES           29      60.24     127.38      2.10       0.62      0.14
UNREQD HOURS           29       0.42       0.31      2.10       0.62      0.15
ENGLISH HOURS          29       0.34       0.36      2.10       0.62     -0.16
MATH HOURS             29       0.15       0.23      2.10       0.62      0.03
NAT SCI HOURS          29       0.08       0.14      2.10       0.62      0.27
SOC SCI HOURS          29       0.39       0.55      2.10       0.62     -0.07
HUMANITIES HRS         29       0.05       0.11      2.10       0.62     -0.14
LITERATURE HRS         29       0.12       0.25      2.10       0.62      0.27
MAG-NEWS HOURS         29       0.22       0.18      2.10       0.62     -0.22
NOTES HOURS            29       0.08       0.14      2.10       0.62      0.11
ENGLISH PAGES          29      71.45     110.72      2.10       0.62     -0.04
MATH PAGES             29      15.76      22.88      2.10       0.62      0.04
NAT SCI PAGES          29      13.21      27.32      2.10       0.62      0.24
SOC SCI PAGES          29      65.03      87.95      2.10       0.62     -0.03
HUMANITIES PGS         29       7.34      19.99      2.10       0.62     -0.29
LITERATURE PGS         29      56.93     128.14      2.10       0.62      0.15
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PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 27

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	195.27	131.82	0.23	0.04	0.02
TOTAL HOURS	26	1.61	0.94	0.23	0.04	-0.48
REQUIRED PAGES	26	171.88	115.07	0.23	0.04	-0.21
REQUIRED HOURS	26	1.13	0.90	0.23	0.04	-0.46
UNREQD PAGES	26	23.38	61.40	0.23	0.04	0.44
UNREQD HOURS	26	0.48	0.25	0.23	0.04	-0.13
ENGLISH HOURS	26	0.29	0.32	0.23	0.04	-0.41
MATH HOURS	26	0.14	0.25	0.23	0.04	-0.01
NAT SCI HOURS	26	0.20	0.33	0.23	0.04	-0.40
SOC SCI HOURS	26	0.41	0.59	0.23	0.04	-0.31
HUMANITIES HRS	26	0.06	0.12	0.23	0.04	0.38
LITERATURE HRS	26	0.05	0.12	0.23	0.04	0.46
MAG-NEWS HOURS	26	0.30	0.24	0.23	0.04	-0.27
NOTES HOURS	26	0.10	0.16	0.23	0.04	-0.18
ENGLISH PAGES	26	41.54	42.92	0.23	0.04	-0.07
MATH PAGES	26	16.46	28.65	0.23	0.04	-0.01
NAT SCI PAGES	26	29.88	49.74	0.23	0.04	-0.12
SOC SCI PAGES	26	74.50	101.24	0.23	0.04	-0.22
HUMANITIES PGS	26	9.81	18.98	0.23	0.04	0.36
LITERATURE PGS	26	23.38	61.40	0.23	0.04	0.44

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	194.55	127.11	2.10	0.62	0.02
TOTAL HOURS	29	1.56	0.91	2.10	0.62	-0.06
REQUIRED PAGES	29	171.14	111.34	2.10	0.62	-0.09
REQUIRED HOURS	29	1.10	0.87	2.10	0.62	-0.14
UNREQD PAGES	29	23.59	59.07	2.10	0.62	0.22
UNREQD HOURS	29	0.46	0.26	2.10	0.62	0.23
ENGLISH HOURS	29	0.28	0.31	2.10	0.62	-0.15
MATH HOURS	29	0.13	0.24	2.10	0.62	0.06
NAT SCI HOURS	29	0.22	0.36	2.10	0.62	-0.14
SOC SCI HOURS	29	0.40	0.56	2.10	0.62	-0.06
HUMANITIES HRS	29	0.06	0.12	2.10	0.62	0.07
LITERATURE HRS	29	0.05	0.11	2.10	0.62	0.34
MAG-NEWS HOURS	29	0.29	0.24	2.10	0.62	-0.01
NOTES HOURS	29	0.09	0.15	2.10	0.62	0.01
ENGLISH PAGES	29	39.31	41.61	2.10	0.62	-0.05
MATH PAGES	29	14.76	27.59	2.10	0.62	0.05
NAT SCI PAGES	29	32.55	54.05	2.10	0.62	-0.07
SOC SCI PAGES	29	73.07	96.20	2.10	0.62	-0.04
HUMANITIES PGS	29	11.72	20.17	2.10	0.62	-0.09
LITERATURE PGS	29	23.41	59.13	2.10	0.62	0.22

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR PAGES AND HOURS OF READING
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 28

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	26	276.73	229.91	0.23	0.04	0.10
TOTAL HOURS	26	2.06	1.30	0.23	0.04	-0.28
REQUIRED PAGES	26	251.58	206.45	0.23	0.04	-0.02
REQUIRED HOURS	26	1.51	1.29	0.23	0.04	-0.26
UNREQD PAGES	26	25.15	67.21	0.23	0.04	0.38
UNREQD HOURS	26	0.55	0.33	0.23	0.04	-0.07
ENGLISH HOURS	26	0.29	0.33	0.23	0.04	-0.33
MATH HOURS	26	0.29	0.51	0.23	0.04	-0.02
NAT SCI HOURS	26	0.13	0.29	0.23	0.04	0.08
SOC SCI HOURS	26	0.69	0.85	0.23	0.04	-0.26
HUMANITIES HRS	26	0.11	0.23	0.23	0.04	-0.10
LITERATURE HRS	26	0.06	0.14	0.23	0.04	0.41
MAG-NEWS HOURS	26	0.26	0.21	0.23	0.04	0.02
NOTES HOURS	26	0.23	0.26	0.23	0.04	-0.32
ENGLISH PAGES	26	43.08	52.22	0.23	0.04	-0.23
MATH PAGES	26	36.12	69.45	0.23	0.04	0.03
NAT SCI PAGES	26	27.58	61.58	0.23	0.04	0.21
SOC SCI PAGES	26	123.50	164.90	0.23	0.04	0.03
HUMANITIES PGS	26	22.46	50.70	0.23	0.04	-0.22
LITERATURE PGS	26	21.08	65.38	0.23	0.04	0.31

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
TOTAL PAGES	29	278.79	223.91	2.10	0.62	0.23
TOTAL HOURS	29	2.05	1.24	2.10	0.62	-0.01
REQUIRED PAGES	29	249.79	200.72	2.10	0.62	0.19
REQUIRED HOURS	29	1.47	1.25	2.10	0.62	0.07
UNREQD PAGES	29	29.00	70.59	2.10	0.62	0.19
UNREQD HOURS	29	0.58	0.36	2.10	0.62	-0.28
ENGLISH HOURS	29	0.28	0.31	2.10	0.62	-0.08
MATH HOURS	29	0.26	0.49	2.10	0.62	0.20
NAT SCI HOURS	29	0.15	0.31	2.10	0.62	0.21
SOC SCI HOURS	29	0.67	0.82	2.10	0.62	-0.08
HUMANITIES HRS	29	0.11	0.22	2.10	0.62	0.07
LITERATURE HRS	29	0.06	0.14	2.10	0.62	0.27
MAG-NEWS HOURS	29	0.27	0.20	2.10	0.62	-0.09
NOTES HOURS	29	0.24	0.31	2.10	0.62	-0.40
ENGLISH PAGES	29	41.93	50.46	2.10	0.62	-0.03
MATH PAGES	29	32.76	66.52	2.10	0.62	0.30
NAT SCI PAGES	29	32.28	68.51	2.10	0.62	0.26
SOC SCI PAGES	29	121.31	158.34	2.10	0.62	0.01
HUMANITIES PGS	29	22.55	48.31	2.10	0.62	0.05
LITERATURE PGS	29	25.34	69.24	2.10	0.62	0.12

Appendix 12

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 1

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	79	22.39	0.0	19.43	0.0	0.26
MATHEMATICS	52	20.01	0.0	19.33	0.0	0.17
NATURAL SCIENCE	50	17.17	0.0	17.88	0.0	0.28
SOCIAL SCIENCE	63	20.29	0.0	20.32	0.0	0.19
HUMANITIES	31	28.45	0.0	20.16	0.0	0.12
LITERATURE	21	48.89	0.0	18.67	0.0	0.41

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	79	22.39	0.0	1.77	0.0	0.25
MATHEMATICS	52	20.01	0.0	1.80	0.0	0.05
NATURAL SCIENCE	50	17.17	0.0	1.68	0.0	0.26
SOCIAL SCIENCE	63	20.29	0.0	1.73	0.0	-0.01
HUMANITIES	31	28.45	0.0	1.55	0.0	0.06
LITERATURE	21	48.89	0.0	1.43	0.0	-0.13

WEEK 2

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	110	29.05	0.0	18.67	0.0	0.11
MATHEMATICS	67	19.77	0.0	18.67	0.0	0.26
NATURAL SCIENCE	62	16.50	0.0	17.18	0.0	0.02
SOCIAL SCIENCE	93	21.35	0.0	18.74	0.0	0.00
HUMANITIES	41	23.90	0.0	20.05	0.0	0.26
LITERATURE	44	47.94	0.0	20.91	0.0	-0.00

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	110	29.05	0.0	2.18	0.0	0.10
MATHEMATICS	67	19.77	0.0	2.09	0.0	0.23
NATURAL SCIENCE	62	16.50	0.0	2.17	0.0	0.02
SOCIAL SCIENCE	93	21.35	0.0	2.14	0.0	0.14
HUMANITIES	41	23.90	0.0	2.00	0.0	0.12
LITERATURE	44	47.94	0.0	2.13	0.0	0.10

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR READING RATES IN VARIOUS SUBJECTS
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 3

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	67	27.16	0.0	20.25	0.0	0.13
MATHEMATICS	50	15.68	0.0	20.14	0.0	0.30
NATURAL SCIENCE	45	16.43	0.0	18.09	0.0	0.05
SOCIAL SCIENCE	60	22.49	0.0	19.48	0.0	0.09
HUMANITIES	27	23.28	0.0	20.37	0.0	0.24
LITERATURE	33	45.97	0.0	18.00	0.0	0.25

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	67	27.16	0.0	2.02	0.0	0.05
MATHEMATICS	50	15.68	0.0	2.05	0.0	0.04
NATURAL SCIENCE	45	16.43	0.0	1.95	0.0	0.05
SOCIAL SCIENCE	60	22.49	0.0	2.04	0.0	0.14
HUMANITIES	27	23.28	0.0	2.17	0.0	0.04
LITERATURE	33	45.97	0.0	2.03	0.0	0.18

WEEK 4

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	67	25.64	0.0	16.94	0.0	-0.06
MATHEMATICS	45	17.34	0.0	16.44	0.0	-0.27
NATURAL SCIENCE	45	22.54	0.0	15.78	0.0	-0.01
SOCIAL SCIENCE	55	23.62	0.0	14.51	0.0	0.07
HUMANITIES	35	22.67	0.0	14.80	0.0	0.10
LITERATURE	36	49.54	0.0	15.97	0.0	0.16

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	67	25.64	0.0	1.63	0.0	-0.21
MATHEMATICS	45	17.34	0.0	1.75	0.0	-0.20
NATURAL SCIENCE	45	22.54	0.0	1.64	0.0	-0.19
SOCIAL SCIENCE	55	23.62	0.0	1.57	0.0	-0.06
HUMANITIES	35	22.67	0.0	1.72	0.0	-0.15
LITERATURE	36	49.54	0.0	1.54	0.0	0.01

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 5

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	127	27.41	0.0	19.43	0.0	0.05
MATHEMATICS	82	15.76	0.0	19.32	0.0	0.15
NATURAL SCIENCE	77	20.76	0.0	19.05	0.0	0.18
SOCIAL SCIENCE	121	25.81	0.0	17.94	0.0	-0.14
HUMANITIES	57	24.01	0.0	18.42	0.0	0.22
LITERATURE	46	51.11	0.0	19.39	0.0	0.06

Y IS GPA

ENGLISH	127	27.41	0.0	2.00	0.0	0.10
MATHEMATICS	82	15.76	0.0	1.88	0.0	0.05
NATURAL SCIENCE	77	20.76	0.0	1.96	0.0	0.16
SOCIAL SCIENCE	121	25.81	0.0	1.84	0.0	-0.18
HUMANITIES	57	24.01	0.0	1.81	0.0	-0.05
LITERATURE	46	51.11	0.0	1.79	0.0	-0.11

WEEK 6

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	49	24.87	0.0	21.37	0.0	0.16
MATHEMATICS	41	14.37	0.0	20.15	0.0	0.17
NATURAL SCIENCE	38	22.45	0.0	17.82	0.0	0.25
SOCIAL SCIENCE	37	25.52	0.0	21.24	0.0	0.00
HUMANITIES	28	23.51	0.0	18.57	0.0	0.15
LITERATURE	20	29.70	0.0	18.85	0.0	0.49

Y IS GPA

ENGLISH	49	24.87	0.0	1.81	0.0	-0.07
MATHEMATICS	41	14.37	0.0	1.93	0.0	0.37
NATURAL SCIENCE	38	22.45	0.0	1.52	0.0	0.02
SOCIAL SCIENCE	37	25.52	0.0	1.70	0.0	0.17
HUMANITIES	28	23.51	0.0	1.63	0.0	0.28
LITERATURE	20	29.70	0.0	1.61	0.0	0.34

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR READING RATES IN VARIOUS SUBJECTS
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 7

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	50	21.20	0.0	19.86	0.0	-0.03
MATHEMATICS	37	12.01	0.0	19.03	0.0	-0.05
NATURAL SCIENCE	38	12.15	0.0	23.16	0.0	-0.17
SOCIAL SCIENCE	45	16.42	0.0	19.42	0.0	-0.04
HUMANITIES	25	22.51	0.0	18.28	0.0	0.06
LITERATURE	17	37.65	0.0	17.53	0.0	0.39

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	50	21.20	0.0	2.08	0.0	0.07
MATHEMATICS	37	12.01	0.0	2.08	0.0	-0.10
NATURAL SCIENCE	38	12.15	0.0	2.24	0.0	-0.25
SOCIAL SCIENCE	45	16.42	0.0	2.06	0.0	-0.06
HUMANITIES	25	22.51	0.0	1.88	0.0	0.19
LITERATURE	17	37.65	0.0	1.82	0.0	0.37

WEEK 8

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	81	23.18	0.0	18.27	0.0	0.11
MATHEMATICS	65	16.21	0.0	18.51	0.0	-0.07
NATURAL SCIENCE	59	15.01	0.0	16.73	0.0	-0.09
SOCIAL SCIENCE	59	19.11	0.0	18.44	0.0	-0.01
HUMANITIES	34	18.08	0.0	17.35	0.0	-0.15
LITERATURE	29	44.18	0.0	18.48	0.0	-0.12

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	81	23.18	0.0	1.78	0.0	0.09
MATHEMATICS	65	16.21	0.0	1.65	0.0	0.00
NATURAL SCIENCE	59	15.01	0.0	1.84	0.0	0.02
SOCIAL SCIENCE	59	19.11	0.0	1.88	0.0	0.04
HUMANITIES	34	18.08	0.0	1.91	0.0	-0.16
LITERATURE	29	44.18	0.0	1.71	0.0	-0.25

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 9

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	54	17.21	0.0	19.91	0.0	0.09
MATHEMATICS	57	11.66	0.0	22.35	0.0	-0.43
NATURAL SCIENCE	42	15.76	0.0	22.71	0.0	-0.13
SOCIAL SCIENCE	57	22.20	0.0	20.18	0.0	-0.32
HUMANITIES	24	25.92	0.0	19.50	0.0	-0.26
LITERATURE	22	37.02	0.0	16.77	0.0	-0.00

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	54	17.21	0.0	1.95	0.0	0.07
MATHEMATICS	57	11.66	0.0	2.11	0.0	-0.23
NATURAL SCIENCE	42	15.76	0.0	2.09	0.0	-0.17
SOCIAL SCIENCE	57	22.20	0.0	1.94	0.0	-0.28
HUMANITIES	24	25.92	0.0	1.94	0.0	0.01
LITERATURE	22	37.02	0.0	1.69	0.0	0.20

WEEK 10

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	85	24.11	0.0	17.41	0.0	-0.01
MATHEMATICS	83	17.39	0.0	17.46	0.0	-0.11
NATURAL SCIENCE	65	17.82	0.0	18.80	0.0	0.17
SOCIAL SCIENCE	80	21.80	0.0	17.07	0.0	0.26
HUMANITIES	39	14.60	0.0	18.36	0.0	-0.11
LITERATURE	32	34.06	0.0	16.37	0.0	0.18

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	85	24.11	0.0	1.86	0.0	-0.09
MATHEMATICS	83	17.39	0.0	1.83	0.0	-0.07
NATURAL SCIENCE	65	17.82	0.0	1.92	0.0	0.16
SOCIAL SCIENCE	80	21.80	0.0	1.83	0.0	0.15
HUMANITIES	39	14.60	0.0	2.00	0.0	0.22
LITERATURE	32	34.06	0.0	1.92	0.0	0.43

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 11

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	75	22.06	0.0	18.87	0.0	-0.11
MATHEMATICS	67	14.43	0.0	19.97	0.0	0.14
NATURAL SCIENCE	71	17.30	0.0	19.15	0.0	0.10
SOCIAL SCIENCE	65	20.85	0.0	18.91	0.0	0.15
HUMANITIES	33	24.56	0.0	18.52	0.0	0.03
LITERATURE	30	46.02	0.0	18.53	0.0	-0.17

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	75	22.06	0.0	1.90	0.0	-0.02
MATHEMATICS	67	14.43	0.0	2.00	0.0	0.07
NATURAL SCIENCE	71	17.30	0.0	1.91	0.0	0.02
SOCIAL SCIENCE	65	20.85	0.0	1.93	0.0	0.07
HUMANITIES	33	24.56	0.0	2.18	0.0	-0.03
LITERATURE	30	46.02	0.0	2.14	0.0	-0.12

WEEK 12

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	53	23.13	0.0	15.15	0.0	0.05
MATHEMATICS	58	14.91	0.0	19.22	0.0	0.22
NATURAL SCIENCE	50	17.52	0.0	19.12	0.0	0.15
SOCIAL SCIENCE	73	22.01	0.0	15.08	0.0	0.16
HUMANITIES	33	41.45	0.0	15.03	0.0	-0.25
LITERATURE	32	45.04	0.0	15.37	0.0	0.25

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	53	23.13	0.0	1.72	0.0	0.07
MATHEMATICS	58	14.91	0.0	1.81	0.0	0.06
NATURAL SCIENCE	50	17.52	0.0	1.82	0.0	0.31
SOCIAL SCIENCE	73	22.01	0.0	1.70	0.0	0.04
HUMANITIES	33	41.45	0.0	1.60	0.0	-0.31
LITERATURE	32	45.04	0.0	1.79	0.0	0.44

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 13

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	60	24.98	0.0	19.13	0.0	-0.25
MATHEMATICS	40	15.86	0.0	17.27	0.0	0.09
NATURAL SCIENCE	47	17.21	0.0	20.87	0.0	0.23
SOCIAL SCIENCE	68	20.54	0.0	19.29	0.0	0.12
HUMANITIES	24	21.75	0.0	16.29	0.0	0.21
LITERATURE	22	53.48	0.0	20.77	0.0	0.24

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	60	24.98	0.0	1.88	0.0	0.11
MATHEMATICS	40	15.86	0.0	1.84	0.0	0.15
NATURAL SCIENCE	47	17.21	0.0	1.82	0.0	0.14
SOCIAL SCIENCE	68	20.54	0.0	1.79	0.0	0.11
HUMANITIES	24	21.75	0.0	1.67	0.0	-0.00
LITERATURE	22	53.48	0.0	1.87	0.0	0.22

WEEK 14

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	29	23.73	0.0	19.90	0.0	-0.06
MATHEMATICS	22	52.06	0.0	21.50	0.0	-0.68
NATURAL SCIENCE	24	20.60	0.0	19.12	0.0	-0.13
SOCIAL SCIENCE	39	22.79	0.0	16.51	0.0	-0.17
HUMANITIES	20	27.21	0.0	16.85	0.0	-0.22
LITERATURE	13	55.08	0.0	15.69	0.0	-0.47

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	29	23.73	0.0	1.63	0.0	-0.01
MATHEMATICS	22	52.06	0.0	1.71	0.0	-0.07
NATURAL SCIENCE	24	20.60	0.0	1.62	0.0	-0.15
SOCIAL SCIENCE	39	22.79	0.0	1.46	0.0	0.07
HUMANITIES	20	27.21	0.0	1.65	0.0	-0.25
LITERATURE	13	55.08	0.0	1.35	0.0	0.02

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 15

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	38	20.72	0.0	19.95	0.0	0.23
MATHEMATICS	28	13.24	0.0	20.11	0.0	0.06
NATURAL SCIENCE	17	17.89	0.0	18.35	0.0	0.13
SOCIAL SCIENCE	28	27.47	0.0	20.11	0.0	0.10
HUMANITIES	11	46.04	0.0	20.82	0.0	0.14
LITERATURE	14	38.81	0.0	19.36	0.0	0.19

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	38	20.72	0.0	2.13	0.0	0.11
MATHEMATICS	28	13.24	0.0	2.19	0.0	0.26
NATURAL SCIENCE	17	17.89	0.0	2.36	0.0	-0.40
SOCIAL SCIENCE	28	27.47	0.0	2.17	0.0	-0.27
HUMANITIES	11	46.04	0.0	2.01	0.0	-0.41
LITERATURE	14	38.81	0.0	1.94	0.0	-0.13

WEEK 16

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	67	22.15	0.0	19.51	0.0	-0.05
MATHEMATICS	39	13.23	0.0	19.38	0.0	-0.23
NATURAL SCIENCE	35	18.87	0.0	18.09	0.0	0.07
SOCIAL SCIENCE	49	21.78	0.0	18.96	0.0	-0.05
HUMANITIES	19	20.51	0.0	18.68	0.0	-0.17
LITERATURE	18	40.47	0.0	21.11	0.0	-0.03

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	67	22.15	0.0	2.28	0.0	-0.03
MATHEMATICS	39	13.23	0.0	2.27	0.0	-0.08
NATURAL SCIENCE	35	18.87	0.0	2.08	0.0	0.38
SOCIAL SCIENCE	49	21.78	0.0	2.45	0.0	0.01
HUMANITIES	19	20.51	0.0	2.57	0.0	0.26
LITERATURE	18	40.47	0.0	2.32	0.0	0.16

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 17

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	19.25	0.0	17.72	0.0	0.32
MATHEMATICS	10	13.83	0.0	18.40	0.0	0.55
NATURAL SCIENCE	8	11.84	0.0	9.25	0.0	0.70
SOCIAL SCIENCE	22	18.66	0.0	18.32	0.0	0.22
HUMANITIES	7	24.09	0.0	21.86	0.0	0.15
LITERATURE	5	41.14	0.0	14.60	0.0	-0.52

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	19.25	0.0	2.41	0.0	0.29
MATHEMATICS	10	13.83	0.0	2.36	0.0	0.77
NATURAL SCIENCE	8	11.84	0.0	2.43	0.0	0.52
SOCIAL SCIENCE	22	18.66	0.0	2.33	0.0	0.11
HUMANITIES	7	24.09	0.0	2.68	0.0	0.30
LITERATURE	5	41.14	0.0	2.45	0.0	-0.37

WEEK 18

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	28	22.67	0.0	18.71	0.0	0.02
MATHEMATICS	12	13.94	0.0	15.92	0.0	0.03
NATURAL SCIENCE	18	15.78	0.0	18.67	0.0	0.01
SOCIAL SCIENCE	17	18.01	0.0	19.35	0.0	0.46
HUMANITIES	13	19.67	0.0	20.69	0.0	0.30
LITERATURE	7	40.65	0.0	17.71	0.0	0.58

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	28	22.67	0.0	2.20	0.0	0.04
MATHEMATICS	12	13.94	0.0	2.19	0.0	0.26
NATURAL SCIENCE	18	15.78	0.0	2.11	0.0	-0.30
SOCIAL SCIENCE	17	18.01	0.0	2.31	0.0	0.14
HUMANITIES	13	19.67	0.0	2.11	0.0	0.50
LITERATURE	7	40.65	0.0	2.40	0.0	0.39

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN

WEEK 19

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	63	28.30	0.0	19.27	0.0	-0.42
MATHEMATICS	35	13.21	0.0	19.34	0.0	-0.49
NATURAL SCIENCE	35	16.94	0.0	19.60	0.0	0.06
SOCIAL SCIENCE	56	20.45	0.0	18.61	0.0	0.02
HUMANITIES	18	19.03	0.0	19.50	0.0	0.25
LITERATURE	11	38.63	0.0	20.55	0.0	0.23

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	63	28.30	0.0	2.39	0.0	0.08
MATHEMATICS	35	13.21	0.0	2.42	0.0	-0.31
NATURAL SCIENCE	35	16.94	0.0	2.35	0.0	0.05
SOCIAL SCIENCE	56	20.45	0.0	2.32	0.0	0.09
HUMANITIES	18	19.03	0.0	2.35	0.0	0.19
LITERATURE	11	38.63	0.0	1.94	0.0	-0.13

WEEK 20

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	18	32.11	0.0	19.00	0.0	0.05
MATHEMATICS	12	12.32	0.0	14.67	0.0	0.05
NATURAL SCIENCE	13	13.81	0.0	19.23	0.0	0.18
SOCIAL SCIENCE	13	22.05	0.0	19.23	0.0	-0.46
HUMANITIES	4	13.57	0.0	11.75	0.0	0.18
LITERATURE	3	31.20	0.0	15.33	0.0	0.29

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	18	32.11	0.0	2.00	0.0	-0.04
MATHEMATICS	12	12.32	0.0	1.92	0.0	0.49
NATURAL SCIENCE	13	13.81	0.0	2.02	0.0	0.26
SOCIAL SCIENCE	13	22.05	0.0	1.64	0.0	0.17
HUMANITIES	4	13.57	0.0	1.36	0.0	0.78
LITERATURE	3	31.20	0.0	1.37	0.0	0.49

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                 PRODUCT-MOMENT CORRELATION COEFFICIENTS
                   FOR READING RATES IN VARIOUS SUBJECTS
            VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
                         OHIO RESIDENT FRESHMEN

                            W E E K   2 1

      Y IS ACT

                      NUMBER              STD              STD
                        IN        MEAN    DEV     MEAN     DEV     CORR
                      SAMPLE        X      X        Y       Y      COEFF

  ENGLISH               24        22.79   0.0     18.25    0.0     -0.18
  MATHEMATICS           14        12.91   0.0     13.21    0.0     -0.42
  NATURAL SCIENCE       15        16.00   0.0     18.13    0.0     -0.35
  SOCIAL SCIENCE        23        16.37   0.0     18.57    0.0      0.09
  HUMANITIES             7        19.00   0.0     22.14    0.0      0.76
  LITERATURE             4        38.26   0.0     18.75    0.0      0.89


      Y IS GPA

  ENGLISH               24        22.79   0.0      2.31    0.0     -0.12
  MATHEMATICS           14        12.91   0.0      2.07    0.0     -0.64
  NATURAL SCIENCE       15        16.00   0.0      2.19    0.0     -0.19
  SOCIAL SCIENCE        23        16.37   0.0      2.34    0.0      0.13
  HUMANITIES             7        19.00   0.0      2.37    0.0      0.89
  LITERATURE             4        38.26   0.0      1.83    0.0      0.89


                            W E E K   2 2

      Y IS ACT

                      NUMBER              STD              STD
                        IN        MEAN    DEV     MEAN     DEV     CORR
                      SAMPLE        X      X        Y       Y      COEFF

  ENGLISH               23        25.18   0.0     18.78    0.0      0.06
  MATHEMATICS           11         8.72   0.0     16.27    0.0      0.32
  NATURAL SCIENCE        8        11.64   0.0     13.50    0.0      0.56
  SOCIAL SCIENCE        21        22.73   0.0     19.19    0.0      0.13
  HUMANITIES             9        30.75   0.0     15.11    0.0     -0.10
  LITERATURE             7        47.26   0.0     19.57    0.0     -0.73


      Y IS GPA

  ENGLISH               23        25.18   0.0      2.24    0.0     -0.22
  MATHEMATICS           11         8.72   0.0      1.91    0.0      0.45
  NATURAL SCIENCE        8        11.64   0.0      1.94    0.0      0.37
  SOCIAL SCIENCE        21        22.73   0.0      2.32    0.0     -0.05
  HUMANITIES             9        30.75   0.0      2.16    0.0      0.49
  LITERATURE             7        47.26   0.0      2.55    0.0     -0.71
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                    PRODUCT-MOMENT CORRELATION COEFFICIENTS
                     FOR READING RATES IN VARIOUS SUBJECTS
              VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
                           OHIO RESIDENT FRESHMEN

                               W E E K   2 3

      Y IS ACT

                         NUMBER               STD                 STD
                           IN        MEAN     DEV      MEAN       DEV      CORR
                         SAMPLE        X       X         Y         Y       COEFF

   ENGLISH                 31       16.16     0.0     20.26       0.0       0.21
   MATHEMATICS             26       11.31     0.0     22.54       0.0       0.10
   NATURAL SCIENCE         21       13.86     0.0     23.00       0.0       0.10
   SOCIAL SCIENCE          29       15.91     0.0     18.90       0.0      -0.02
   HUMANITIES               9       16.68     0.0     19.11       0.0       0.36
   LITERATURE               9       40.48     0.0     16.67       0.0       0.14

      Y IS GPA

   ENGLISH                 31       16.16     0.0      2.44       0.0       0.11
   MATHEMATICS             26       11.31     0.0      2.57       0.0       0.00
   NATURAL SCIENCE         21       13.86     0.0      2.63       0.0       0.16
   SOCIAL SCIENCE          29       15.91     0.0      2.42       0.0      -0.03
   HUMANITIES               9       16.68     0.0      2.38       0.0       0.41
   LITERATURE               9       40.48     0.0      2.29       0.0      -0.17


                               W E E K   2 4

      Y IS ACT

                         NUMBER               STD                 STD
                           IN        MEAN     DEV      MEAN       DEV      CORR
                         SAMPLE        X       X         Y         Y       COEFF

   ENGLISH                 26       17.73     0.0     17.38       0.0       0.18
   MATHEMATICS             19       11.56     0.0     20.37       0.0      -0.09
   NATURAL SCIENCE          7       16.05     0.0      8.29       0.0       0.39
   SOCIAL SCIENCE          25       33.09     0.0     18.32       0.0       0.18
   HUMANITIES              10       20.06     0.0     17.20       0.0       0.47
   LITERATURE               5       31.44     0.0     19.60       0.0       0.72

      Y IS GPA

   ENGLISH                 26       17.73     0.0      2.17       0.0       0.38
   MATHEMATICS             19       11.56     0.0      2.12       0.0       0.23
   NATURAL SCIENCE          7       16.05     0.0      2.21       0.0      -0.20
   SOCIAL SCIENCE          25       33.09     0.0      2.26       0.0      -0.01
   HUMANITIES              10       20.06     0.0      2.10       0.0      -0.14
   LITERATURE               5       31.44     0.0      1.88       0.0       0.55
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                PRODUCT-MOMENT CORRELATION COEFFICIENTS
                 FOR READING RATES IN VARIOUS SUBJECTS
         VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
                        OHIO RESIDENT FRESHMEN

                          W E E K   2 5

       Y IS ACT

                       NUMBER               STD                 STD
                         IN       MEAN      DEV       MEAN      DEV      CORR
                       SAMPLE      X         X         Y         Y       COEFF

ENGLISH                  30      19.87      0.0      16.47      0.0      -0.11
MATHEMATICS              22       9.24      0.0      15.41      0.0      -0.49
NATURAL SCIENCE          15      15.31      0.0      14.33      0.0       0.31
SOCIAL SCIENCE           20      18.05      0.0      14.65      0.0      -0.24
HUMANITIES                8      17.87      0.0      15.00      0.0      -0.22
LITERATURE                6      42.30      0.0      16.00      0.0       0.45


       Y IS GPA

ENGLISH                  30      19.87      0.0       2.15      0.0       0.25
MATHEMATICS              22       9.24      0.0       2.13      0.0       0.31
NATURAL SCIENCE          15      15.31      0.0       2.31      0.0       0.32
SOCIAL SCIENCE           20      18.05      0.0       2.23      0.0       0.23
HUMANITIES                8      17.87      0.0       2.30      0.0      -0.36
LITERATURE                6      42.30      0.0       2.01      0.0       0.57



                          W E E K   2 6

       Y IS ACT

                       NUMBER               STD                 STD
                         IN       MEAN      DEV       MEAN      DEV      CORR
                       SAMPLE      X         X         Y         Y       COEFF

ENGLISH                  29      41.81      0.0      18.83      0.0       0.19
MATHEMATICS              17      12.68      0.0      13.82      0.0       0.15
NATURAL SCIENCE          15      25.27      0.0      19.13      0.0       0.12
SOCIAL SCIENCE           28      28.64      0.0      15.71      0.0       0.05
HUMANITIES                6      62.25      0.0      22.50      0.0       0.44
LITERATURE                9      55.84      0.0      14.00      0.0      -0.05


       Y IS GPA

ENGLISH                  29      41.81      0.0       2.17      0.0      -0.10
MATHEMATICS              17      12.68      0.0       2.22      0.0      -0.25
NATURAL SCIENCE          15      25.27      0.0       2.60      0.0      -0.00
SOCIAL SCIENCE           28      28.64      0.0       2.34      0.0      -0.45
HUMANITIES                6      62.25      0.0       2.31      0.0       0.44
LITERATURE                9      55.84      0.0       1.98      0.0      -0.61
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PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN

WEEK 27

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	15	21.84	0.0	18.60	0.0	-0.03
MATHEMATICS	11	11.45	0.0	17.73	0.0	-0.22
NATURAL SCIENCE	4	11.67	0.0	23.75	0.0	0.38
SOCIAL SCIENCE	10	21.09	0.0	18.70	0.0	0.31
HUMANITIES	6	22.01	0.0	17.00	0.0	-0.22
LITERATURE	2	*******	*******	26.50	0.0	1.00

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	15	21.84	0.0	2.17	0.0	-0.60
MATHEMATICS	11	11.45	0.0	2.25	0.0	-0.33
NATURAL SCIENCE	4	11.67	0.0	3.09	0.0	0.70
SOCIAL SCIENCE	10	21.09	0.0	2.15	0.0	-0.16
HUMANITIES	6	22.01	0.0	1.94	0.0	-0.80
LITERATURE	2	*******	*******	*******	*******	*******

WEEK 28

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	7	20.02	0.0	15.14	0.0	0.46
MATHEMATICS	3	19.32	0.0	24.00	0.0	1.00
NATURAL SCIENCE	2	23.0[illegible]	0.0	25.00	0.0	1.00
SOCIAL SCIENCE	11	26.41	0.0	15.73	0.0	-0.22
HUMANITIES	4	27.22	0.0	22.50	0.0	0.70
LITERATURE	3	40.04	0.0	17.00	0.0	-0.05

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	7	20.02	0.0	1.98	0.0	0.05
MATHEMATICS	3	19.32	0.0	1.73	0.0	0.26
NATURAL SCIENCE	2	23.06	0.0	1.79	0.0	-1.00
SOCIAL SCIENCE	11	26.41	0.0	1.96	0.0	-0.52
HUMANITIES	4	27.22	0.0	2.27	0.0	0.38
LITERATURE	3	40.04	0.0	1.99	0.0	-0.47

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 1

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	62	24.28	0.0	22.23	0.0	0.23
MATHEMATICS	39	22.96	0.0	23.05	0.0	0.17
NATURAL SCIENCE	37	17.94	0.0	20.89	0.0	0.39
SOCIAL SCIENCE	54	20.72	0.0	22.02	0.0	0.18
HUMANITIES	26	30.61	0.0	21.88	0.0	0.12
LITERATURE	18	42.57	0.0	19.56	0.0	0.57

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	62	24.28	0.0	2.04	0.0	0.07
MATHEMATICS	39	22.96	0.0	2.14	0.0	-0.18
NATURAL SCIENCE	37	17.94	0.0	1.90	0.0	0.19
SOCIAL SCIENCE	54	20.72	0.0	2.00	0.0	-0.08
HUMANITIES	26	30.61	0.0	1.78	0.0	-0.05
LITERATURE	18	42.57	0.0	1.57	0.0	0.44

WEEK 2

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	84	30.23	0.0	23.82	0.0	0.14
MATHEMATICS	54	20.93	0.0	22.85	0.0	0.29
NATURAL SCIENCE	45	15.95	0.0	23.38	0.0	0.25
SOCIAL SCIENCE	72	21.05	0.0	23.47	0.0	0.12
HUMANITIES	33	25.59	0.0	23.30	0.0	0.18
LITERATURE	36	48.71	0.0	25.08	0.0	-0.11

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	84	30.23	0.0	2.25	0.0	0.12
MATHEMATICS	54	20.93	0.0	2.15	0.0	0.29
NATURAL SCIENCE	45	15.95	0.0	2.19	0.0	0.07
SOCIAL SCIENCE	72	21.05	0.0	2.24	0.0	0.09
HUMANITIES	33	25.59	0.0	2.14	0.0	0.20
LITERATURE	36	48.71	0.0	2.23	0.0	-0.21

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 3

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	55	27.84	0.0	23.20	0.0	-0.01
MATHEMATICS	41	16.24	0.0	23.46	0.0	0.31
NATURAL SCIENCE	34	15.70	0.0	22.21	0.0	0.45
SOCIAL SCIENCE	48	22.55	0.0	23.15	0.0	0.18
HUMANITIES	23	24.38	0.0	23.91	0.0	0.11
LITERATURE	23	48.12	0.0	23.78	0.0	0.12

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	55	27.84	0.0	2.27	0.0	0.03
MATHEMATICS	41	16.24	0.0	2.29	0.0	0.03
NATURAL SCIENCE	34	15.70	0.0	2.17	0.0	0.01
SOCIAL SCIENCE	48	22.55	0.0	2.24	0.0	0.18
HUMANITIES	23	24.38	0.0	2.30	0.0	0.03
LITERATURE	23	48.12	0.0	2.35	0.0	0.34

WEEK 4

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	44	23.36	0.0	22.93	0.0	0.09
MATHEMATICS	29	15.19	0.0	23.41	0.0	-0.18
NATURAL SCIENCE	28	20.71	0.0	23.00	0.0	0.02
SOCIAL SCIENCE	32	23.17	0.0	22.47	0.0	0.31
HUMANITIES	22	22.64	0.0	22.55	0.0	0.22
LITERATURE	19	54.18	0.0	25.42	0.0	-0.12

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	44	23.36	0.0	2.14	0.0	-0.07
MATHEMATICS	29	15.19	0.0	2.11	0.0	-0.15
NATURAL SCIENCE	28	20.71	0.0	2.15	0.0	-0.01
SOCIAL SCIENCE	32	23.17	0.0	2.08	0.0	-0.07
HUMANITIES	22	22.64	0.0	2.30	0.0	-0.20
LITERATURE	19	54.18	0.0	2.35	0.0	-0.09

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR READING RATES IN VARIOUS SUBJECTS
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 5

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	103	28.10	0.0	22.89	0.0	0.14
MATHEMATICS	65	15.79	0.0	23.14	0.0	0.21
NATURAL SCIENCE	66	21.30	0.0	21.64	0.0	0.24
SOCIAL SCIENCE	92	23.70	0.0	22.24	0.0	0.25
HUMANITIES	43	25.23	0.0	22.16	0.0	0.22
LITERATURE	38	53.16	0.0	22.66	0.0	0.05

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	103	28.10	0.0	2.24	0.0	0.08
MATHEMATICS	65	15.79	0.0	2.15	0.0	0.14
NATURAL SCIENCE	66	21.30	0.0	2.09	0.0	0.15
SOCIAL SCIENCE	92	23.70	0.0	2.16	0.0	0.10
HUMANITIES	43	25.23	0.0	2.09	0.0	-0.07
LITERATURE	38	53.16	0.0	2.10	0.0	-0.23

WEEK 6

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	38	25.53	0.0	23.89	0.0	0.24
MATHEMATICS	32	15.60	0.0	23.84	0.0	0.11
NATURAL SCIENCE	24	26.94	0.0	22.75	0.0	0.30
SOCIAL SCIENCE	28	25.85	0.0	23.36	0.0	0.03
HUMANITIES	18	26.91	0.0	23.94	0.0	0.22
LITERATURE	18	32.47	0.0	21.22	0.0	0.47

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	38	25.53	0.0	2.13	0.0	-0.21
MATHEMATICS	32	15.60	0.0	2.11	0.0	0.36
NATURAL SCIENCE	24	26.94	0.0	1.97	0.0	-0.19
SOCIAL SCIENCE	28	25.85	0.0	2.21	0.0	0.19
HUMANITIES	18	26.91	0.0	2.10	0.0	0.37
LITERATURE	18	32.47	0.0	1.93	0.0	0.32

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                  PRODUCT-MOMENT CORRELATION COEFFICIENTS
                    FOR READING RATES IN VARIOUS SUBJECTS
             VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
                OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

                          W E E K    7

      Y IS ACT

                     NUMBER               STD                 STD
                       IN       MEAN      DEV       MEAN      DEV      CORR
                     SAMPLE      X         X         Y         Y       COEFF

ENGLISH                42      21.07      0.0      23.21      0.0      -0.07
MATHEMATICS            29      12.13      0.0      23.66      0.0      -0.25
NATURAL SCIENCE        37      11.80      0.0      23.78      0.0       0.23
SOCIAL SCIENCE         38      16.12      0.0      22.53      0.0       0.14
HUMANITIES             20      22.82      0.0      21.95      0.0       0.11
LITERATURE             14      38.64      0.0      21.29      0.0       0.56


      Y IS GPA

ENGLISH                42      21.07      0.0       2.33      0.0       0.22
MATHEMATICS            29      12.13      0.0       2.32      0.0      -0.01
NATURAL SCIENCE        37      11.80      0.0       2.30      0.0      -0.05
SOCIAL SCIENCE         38      16.12      0.0       2.18      0.0      -0.03
HUMANITIES             20      22.82      0.0       2.00      0.0       0.36
LITERATURE             14      38.64      0.0       2.02      0.0       0.45


                          W E E K    8

      Y IS ACT

                     NUMBER               STD                 STD
                       IN       MEAN      DEV       MEAN      DEV      CORR
                     SAMPLE      X         X         Y         Y       COEFF

ENGLISH                60      23.95      0.0      23.15      0.0       0.22
MATHEMATICS            47      16.11      0.0      23.43      0.0      -0.14
NATURAL SCIENCE        40      14.49      0.0      23.37      0.0       0.25
SOCIAL SCIENCE         46      19.19      0.0      22.41      0.0      -0.05
HUMANITIES             24      16.25      0.0      23.29      0.0       0.24
LITERATURE             21      38.15      0.0      23.52      0.0       0.02


      Y IS GPA

ENGLISH                60      23.95      0.0       2.01      0.0       0.05
MATHEMATICS            47      16.11      0.0       1.97      0.0      -0.20
NATURAL SCIENCE        40      14.49      0.0       2.03      0.0      -0.18
SOCIAL SCIENCE         46      19.19      0.0       2.03      0.0       0.05
HUMANITIES             24      16.25      0.0       2.07      0.0      -0.03
LITERATURE             21      38.15      0.0       1.95      0.0      -0.17
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PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR READING RATES IN VARIOUS SUBJECTS
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 9

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	45	17.13	0.0	22.47	0.0	0.10
MATHEMATICS	52	11.06	0.0	23.73	0.0	-0.32
NATURAL SCIENCE	38	15.25	0.0	24.03	0.0	-0.20
SOCIAL SCIENCE	48	20.19	0.0	22.77	0.0	-0.10
HUMANITIES	20	22.36	0.0	22.40	0.0	0.14
LITERATURE	16	31.47	0.0	20.12	0.0	0.50

Y IS GPA

ENGLISH	45	17.13	0.0	2.16	0.0	0.12
MATHEMATICS	52	11.06	0.0	2.21	0.0	-0.24
NATURAL SCIENCE	38	15.25	0.0	2.24	0.0	-0.00
SOCIAL SCIENCE	48	20.19	0.0	2.14	0.0	0.02
HUMANITIES	20	22.36	0.0	2.12	0.0	0.19
LITERATURE	16	31.47	0.0	1.82	0.0	0.54

WEEK 10

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	64	24.16	0.0	22.20	0.0	-0.00
MATHEMATICS	61	16.55	0.0	22.79	0.0	0.16
NATURAL SCIENCE	51	18.76	0.0	23.08	0.0	0.06
SOCIAL SCIENCE	62	23.11	0.0	20.71	0.0	0.34
HUMANITIES	34	13.81	0.0	21.06	0.0	0.09
LITERATURE	22	36.39	0.0	22.82	0.0	0.26

Y IS GPA

ENGLISH	64	24.16	0.0	2.10	0.0	-0.09
MATHEMATICS	61	16.55	0.0	2.02	0.0	0.09
NATURAL SCIENCE	51	18.76	0.0	2.05	0.0	0.11
SOCIAL SCIENCE	62	23.11	0.0	1.98	0.0	0.05
HUMANITIES	34	13.81	0.0	2.03	0.0	0.08
LITERATURE	22	36.39	0.0	2.04	0.0	0.33

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                PRODUCT-MOMENT CORRELATION COEFFICIENTS
                 FOR READING RATES IN VARIOUS SUBJECTS
           VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
             OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

                           W E E K   1 1

      Y IS ACT

                       NUMBER               STD               STD
                         IN       MEAN      DEV     MEAN      DEV      CORR
                       SAMPLE      X         X        Y        Y       COEFF

   ENGLISH               57      20.36      0.0    22.93      0.0       0.22
   MATHEMATICS           53      15.15      0.0    23.19      0.0       0.12
   NATURAL SCIENCE       54      17.62      0.0    23.17      0.0       0.06
   SOCIAL SCIENCE        51      21.62      0.0    22.53      0.0       0.07
   HUMANITIES            25      25.17      0.0    24.44      0.0      -0.05
   LITERATURE            22      42.54      0.0    23.59      0.0       0.09


      Y IS GPA

   ENGLISH               57      20.36      0.0     2.08      0.0       0.10
   MATHEMATICS           53      15.15      0.0     2.15      0.0       0.09
   NATURAL SCIENCE       54      17.62      0.0     2.10      0.0       0.01
   SOCIAL SCIENCE        51      21.62      0.0     2.07      0.0       0.05
   HUMANITIES            25      25.17      0.0     2.28      0.0      -0.17
   LITERATURE            22      42.54      0.0     2.29      0.0      -0.09


                           W E E K   1 2

      Y IS ACT

                       NUMBER               STD               STD
                         IN       MEAN      DEV     MEAN      DEV      CORR
                       SAMPLE      X         X        Y        Y       COEFF

   ENGLISH               32      23.24      0.0    23.62      0.0       0.10
   MATHEMATICS           41      15.96      0.0    23.85      0.0       0.04
   NATURAL SCIENCE       37      17.85      0.0    23.27      0.0       0.25
   SOCIAL SCIENCE        47      20.54      0.0    21.32      0.0       0.51
   HUMANITIES            20      20.33      0.0    22.45      0.0      -0.46
   LITERATURE            21      43.98      0.0    21.38      0.0       0.57


      Y IS GPA

   ENGLISH               32      23.24      0.0     2.21      0.0       0.12
   MATHEMATICS           41      15.96      0.0     2.14      0.0       0.14
   NATURAL SCIENCE       37      17.85      0.0     2.18      0.0       0.40
   SOCIAL SCIENCE        47      20.54      0.0     2.13      0.0       0.46
   HUMANITIES            20      20.33      0.0     2.11      0.0      -0.22
   LITERATURE            21      43.98      0.0     2.13      0.0       0.59
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PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 13

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	47	23.27	0.0	22.72	0.0	0.01
MATHEMATICS	29	17.05	0.0	23.00	0.0	0.00
NATURAL SCIENCE	40	18.12	0.0	22.87	0.0	0.18
SOCIAL SCIENCE	57	21.14	0.0	22.35	0.0	0.18
HUMANITIES	17	23.23	0.0	22.18	0.0	0.25
LITERATURE	20	55.58	0.0	22.85	0.0	0.12

Y IS GPA

ENGLISH	47	23.27	0.0	2.08	0.0	-0.01
MATHEMATICS	29	17.05	0.0	2.09	0.0	0.20
NATURAL SCIENCE	40	18.12	0.0	2.08	0.0	-0.01
SOCIAL SCIENCE	57	21.14	0.0	2.01	0.0	0.06
HUMANITIES	17	23.23	0.0	1.98	0.0	-0.01
LITERATURE	20	55.58	0.0	1.98	0.0	0.12

WEEK 14

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	22	24.31	0.0	23.55	0.0	0.14
MATHEMATICS	19	24.62	0.0	23.63	0.0	-0.25
NATURAL SCIENCE	19	20.36	0.0	22.89	0.0	-0.18
SOCIAL SCIENCE	26	22.06	0.0	22.50	0.0	0.11
HUMANITIES	14	25.80	0.0	22.79	0.0	-0.07
LITERATURE	8	30.67	0.0	23.25	0.0	0.12

Y IS GPA

ENGLISH	22	24.31	0.0	1.98	0.0	0.12
MATHEMATICS	19	24.62	0.0	1.90	0.0	-0.29
NATURAL SCIENCE	19	20.36	0.0	1.86	0.0	-0.09
SOCIAL SCIENCE	26	22.06	0.0	1.67	0.0	0.13
HUMANITIES	14	25.80	0.0	1.87	0.0	-0.38
LITERATURE	8	30.67	0.0	1.78	0.0	0.28

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 15

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	33	20.65	0.0	22.97	0.0	0.46
MATHEMATICS	24	13.44	0.0	23.46	0.0	0.00
NATURAL SCIENCE	13	19.70	0.0	24.00	0.0	-0.40
SOCIAL SCIENCE	23	29.80	0.0	23.30	0.0	-0.01
HUMANITIES	9	53.38	0.0	22.44	0.0	0.06
LITERATURE	12	37.75	0.0	22.58	0.0	0.39
Y IS GPA						
ENGLISH	33	20.65	0.0	2.23	0.0	0.21
MATHEMATICS	24	13.44	0.0	2.32	0.0	0.28
NATURAL SCIENCE	13	19.70	0.0	2.44	0.0	-0.60
SOCIAL SCIENCE	23	29.80	0.0	2.34	0.0	-0.43
HUMANITIES	9	53.38	0.0	2.09	0.0	-0.81
LITERATURE	12	37.75	0.0	2.11	0.0	0.03

WEEK 16

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	55	21.55	0.0	23.45	0.0	0.20
MATHEMATICS	31	12.41	0.0	23.84	0.0	-0.13
NATURAL SCIENCE	26	18.95	0.0	23.69	0.0	0.41
SOCIAL SCIENCE	38	21.63	0.0	24.00	0.0	-0.03
HUMANITIES	16	17.17	0.0	22.19	0.0	0.53
LITERATURE	16	39.18	0.0	23.75	0.0	0.31
Y IS GPA						
ENGLISH	55	21.55	0.0	2.32	0.0	0.01
MATHEMATICS	31	12.41	0.0	2.36	0.0	-0.08
NATURAL SCIENCE	26	18.95	0.0	2.27	0.0	0.34
SOCIAL SCIENCE	38	21.63	0.0	2.49	0.0	-0.06
HUMANITIES	16	17.17	0.0	2.57	0.0	0.52
LITERATURE	16	39.18	0.0	2.24	0.0	0.17

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 17

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	20	19.79	0.0	22.15	0.0	0.61
MATHEMATICS	8	14.89	0.0	23.00	0.0	0.86
NATURAL SCIENCE	5	13.73	0.0	14.80	0.0	0.75
SOCIAL SCIENCE	18	19.14	0.0	22.39	0.0	0.23
HUMANITIES	7	24.09	0.0	21.86	0.0	0.15
LITERATURE	3	32.86	0.0	24.33	0.0	0.60

Y IS GPA

ENGLISH	20	19.79	0.0	2.39	0.0	0.39
MATHEMATICS	8	14.89	0.0	2.27	0.0	0.97
NATURAL SCIENCE	5	13.73	0.0	2.21	0.0	0.66
SOCIAL SCIENCE	18	19.14	0.0	2.34	0.0	0.14
HUMANITIES	7	24.09	0.0	2.68	0.0	0.30
LITERATURE	3	32.86	0.0	2.31	0.0	0.23

WEEK 18

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	23	22.39	0.0	22.78	0.0	0.20
MATHEMATICS	8	14.91	0.0	23.87	0.0	-0.52
NATURAL SCIENCE	15	16.14	0.0	22.40	0.0	-0.29
SOCIAL SCIENCE	14	19.72	0.0	23.50	0.0	0.15
HUMANITIES	12	19.92	0.0	22.42	0.0	0.46
LITERATURE	5	46.11	0.0	24.80	0.0	0.62

Y IS GPA

ENGLISH	23	22.39	0.0	2.24	0.0	0.10
MATHEMATICS	8	14.91	0.0	2.30	0.0	0.29
NATURAL SCIENCE	15	16.14	0.0	2.14	0.0	-0.33
SOCIAL SCIENCE	14	19.72	0.0	2.39	0.0	0.03
HUMANITIES	12	19.92	0.0	2.16	0.0	0.50
LITERATURE	5	46.11	0.0	2.62	0.0	0.22

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           PRODUCT-MOMENT CORRELATION COEFFICIENTS
             FOR READING RATES IN VARIOUS SUBJECTS
      VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
         OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

                         W E E K   1 9

      Y IS ACT

                      NUMBER              STD                  STD
                        IN       MEAN     DEV       MEAN       DEV      CORR
                      SAMPLE      X        X         Y          Y       COEFF

ENGLISH                 53      24.07     0.0      22.91      0.0      -0.23
MATHEMATICS             29      11.41     0.0      23.34      0.0      -0.32
NATURAL SCIENCE         30      17.08     0.0      22.87      0.0       0.02
SOCIAL SCIENCE          45      20.79     0.0      23.16      0.0      -0.19
HUMANITIES              15      20.66     0.0      23.40      0.0      -0.02
LITERATURE               9      40.94     0.0      25.11      0.0       0.09


      Y IS GPA

ENGLISH                 53      24.07     0.0       2.37      0.0      -0.05
MATHEMATICS             29      11.41     0.0       2.46      0.0      -0.28
NATURAL SCIENCE         30      17.08     0.0       2.27      0.0       0.00
SOCIAL SCIENCE          45      20.79     0.0       2.38      0.0       0.01
HUMANITIES              15      20.66     0.0       2.41      0.0       0.38
LITERATURE               9      40.94     0.0       1.93      0.0      -0.06


                         W E E K   2 0

      Y IS ACT

                      NUMBER              STD                  STD
                        IN       MEAN     DEV       MEAN       DEV      CORR
                      SAMPLE      X        X         Y          Y       COEFF

ENGLISH                 15      32.81     0.0      22.80      0.0      -0.02
MATHEMATICS              8      12.50     0.0      22.00      0.0       0.15
NATURAL SCIENCE         11      14.59     0.0      22.73      0.0      -0.40
SOCIAL SCIENCE          11      19.67     0.0      22.73      0.0      -0.04
HUMANITIES               2      13.93     0.0      23.50      0.0       1.00
LITERATURE               2      34.80     0.0    ******* ******* *******


      Y IS GPA

ENGLISH                 15      32.81     0.0       2.03      0.0      -0.04
MATHEMATICS              8      12.50     0.0       2.20      0.0       0.74
NATURAL SCIENCE         11      14.59     0.0       2.06      0.0       0.27
SOCIAL SCIENCE          11      19.67     0.0       1.78      0.0      -0.02
HUMANITIES               2      13.93     0.0       1.82      0.0      -1.00
LITERATURE               2      34.80     0.0       2.06      0.0       1.00
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PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR READING RATES IN VARIOUS SUBJECTS
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 21

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	19	20.83	0.0	23.05	0.0	0.49
MATHEMATICS	8	10.13	0.0	23.13	0.0	-0.02
NATURAL SCIENCE	11	14.49	0.0	24.73	0.0	0.07
SOCIAL SCIENCE	19	16.21	0.0	22.47	0.0	0.37
HUMANITIES	7	19.00	0.0	22.14	0.0	0.76
LITERATURE	4	38.26	0.0	18.75	0.0	0.89

Y IS GPA

ENGLISH	19	20.83	0.0	2.29	0.0	0.26
MATHEMATICS	8	10.13	0.0	2.07	0.0	-0.57
NATURAL SCIENCE	11	14.49	0.0	2.45	0.0	0.26
SOCIAL SCIENCE	19	16.21	0.0	2.26	0.0	0.14
HUMANITIES	7	19.00	0.0	2.37	0.0	0.89
LITERATURE	4	38.26	0.0	1.83	0.0	0.89

WEEK 22

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	19	26.03	0.0	22.74	0.0	-0.12
MATHEMATICS	9	8.87	0.0	19.89	0.0	0.44
NATURAL SCIENCE	5	13.26	0.0	21.60	0.0	0.48
SOCIAL SCIENCE	18	23.44	0.0	22.39	0.0	-0.10
HUMANITIES	6	28.56	0.0	22.67	0.0	0.05
LITERATURE	6	40.85	0.0	22.83	0.0	-0.72

Y IS GPA

ENGLISH	19	26.03	0.0	2.33	0.0	-0.13
MATHEMATICS	9	8.87	0.0	2.05	0.0	0.51
NATURAL SCIENCE	5	13.26	0.0	2.04	0.0	-0.65
SOCIAL SCIENCE	18	23.44	0.0	2.30	0.0	-0.01
HUMANITIES	6	28.56	0.0	2.34	0.0	0.85
LITERATURE	6	40.85	0.0	2.57	0.0	-0.79

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 23

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	27	16.66	0.0	23.26	0.0	0.33
MATHEMATICS	24	11.75	0.0	24.42	0.0	-0.10
NATURAL SCIENCE	20	14.31	0.0	24.15	0.0	-0.21
SOCIAL SCIENCE	24	15.63	0.0	22.83	0.0	0.24
HUMANITIES	8	16.65	0.0	21.50	0.0	0.47
LITERATURE	7	44.64	0.0	21.43	0.0	-0.18

Y IS GPA

ENGLISH	27	16.66	0.0	2.54	0.0	0.12
MATHEMATICS	24	11.75	0.0	2.62	0.0	-0.03
NATURAL SCIENCE	20	14.31	0.0	2.65	0.0	0.13
SOCIAL SCIENCE	24	15.63	0.0	2.54	0.0	-0.03
HUMANITIES	8	16.65	0.0	2.49	0.0	0.42
LITERATURE	7	44.64	0.0	2.36	0.0	-0.25

WEEK 24

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	21	18.76	0.0	21.52	0.0	0.04
MATHEMATICS	17	11.25	0.0	22.76	0.0	0.12
NATURAL SCIENCE	3	18.94	0.0	19.33	0.0	0.83
SOCIAL SCIENCE	20	34.85	0.0	22.90	0.0	0.35
HUMANITIES	8	22.65	0.0	21.50	0.0	0.55
LITERATURE	5	31.44	0.0	19.60	0.0	0.72

Y IS GPA

ENGLISH	21	18.76	0.0	2.22	0.0	0.34
MATHEMATICS	17	11.25	0.0	2.19	0.0	0.32
NATURAL SCIENCE	3	18.94	0.0	1.71	0.0	0.33
SOCIAL SCIENCE	20	34.85	0.0	2.25	0.0	-0.02
HUMANITIES	8	22.65	0.0	2.09	0.0	-0.07
LITERATURE	5	31.44	0.0	1.88	0.0	0.55

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 25

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	22	18.73	0.0	22.45	0.0	0.17
MATHEMATICS	15	6.84	0.0	22.60	0.0	-0.41
NATURAL SCIENCE	10	15.19	0.0	21.50	0.0	0.73
SOCIAL SCIENCE	13	16.42	0.0	22.54	0.0	-0.17
HUMANITIES	5	15.21	0.0	24.00	0.0	0.04
LITERATURE	4	46.07	0.0	24.00	0.0	-0.72

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	22	18.73	0.0	2.34	0.0	0.27
MATHEMATICS	15	6.84	0.0	2.26	0.0	0.10
NATURAL SCIENCE	10	15.19	0.0	2.33	0.0	0.48
SOCIAL SCIENCE	13	16.42	0.0	2.57	0.0	0.41
HUMANITIES	5	15.21	0.0	2.23	0.0	-0.25
LITERATURE	4	46.07	0.0	2.29	0.0	0.18

WEEK 26

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	23	45.02	0.0	23.74	0.0	0.20
MATHEMATICS	10	13.52	0.0	23.50	0.0	0.31
NATURAL SCIENCE	13	25.15	0.0	22.08	0.0	0.19
SOCIAL SCIENCE	19	28.83	0.0	23.16	0.0	0.19
HUMANITIES	5	72.30	0.0	27.00	0.0	0.51
LITERATURE	5	58.93	0.0	25.20	0.0	-0.79

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	23	45.02	0.0	2.27	0.0	-0.19
MATHEMATICS	10	13.52	0.0	2.30	0.0	-0.07
NATURAL SCIENCE	13	25.15	0.0	2.58	0.0	0.04
SOCIAL SCIENCE	19	28.83	0.0	2.39	0.0	-0.48
HUMANITIES	5	72.30	0.0	2.37	0.0	0.39
LITERATURE	5	58.93	0.0	2.13	0.0	-0.72

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES OHIO RESIDENT FRESHMEN WITH GPA AND ACT SCORES

WEEK 27

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	12	20.16	0.0	23.25	0.0	0.53
MATHEMATICS	8	10.60	0.0	24.37	0.0	-0.02
NATURAL SCIENCE	4	11.67	0.0	23.75	0.0	0.38
SOCIAL SCIENCE	8	23.19	0.0	23.37	0.0	0.11
HUMANITIES	4	19.01	0.0	25.50	0.0	0.96
LITERATURE	2	*******	*******	26.50	0.0	1.00

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	12	20.16	0.0	2.29	0.0	-0.56
MATHEMATICS	8	10.60	0.0	2.42	0.0	-0.20
NATURAL SCIENCE	4	11.67	0.0	3.09	0.0	0.70
SOCIAL SCIENCE	8	23.19	0.0	2.21	0.0	-0.25
HUMANITIES	4	19.01	0.0	2.08	0.0	-0.86
LITERATURE	2	*******	*******	*******	*******	*******

WEEK 28

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	5	22.76	0.0	21.20	0.0	0.21
MATHEMATICS	3	19.32	0.0	24.00	0.0	1.00
NATURAL SCIENCE	2	23.06	0.0	25.00	0.0	1.00
SOCIAL SCIENCE	8	24.73	0.0	21.62	0.0	-0.10
HUMANITIES	4	27.22	0.0	22.50	0.0	0.70
LITERATURE	2	38.00	0.0	25.50	0.0	1.00

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	5	22.76	0.0	2.19	0.0	-0.48
MATHEMATICS	3	19.32	0.0	1.73	0.0	0.26
NATURAL SCIENCE	2	23.06	0.0	1.79	0.0	-1.00
SOCIAL SCIENCE	8	24.73	0.0	2.10	0.0	-0.34
HUMANITIES	4	27.22	0.0	2.27	0.0	0.38
LITERATURE	2	38.00	0.0	1.90	0.0	-1.00

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 15

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	17.31	0.0	20.96	0.0	-0.01
MATHEMATICS	17	15.89	0.0	21.88	0.0	0.50
NATURAL SCIENCE	8	15.11	0.0	19.62	0.0	0.08
SOCIAL SCIENCE	17	18.95	0.0	18.12	0.0	0.22
HUMANITIES	7	17.37	0.0	21.14	0.0	-0.83
LITERATURE	7	43.74	0.0	22.00	0.0	-0.14

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	17.31	0.0	2.14	0.0	-0.18
MATHEMATICS	17	15.89	0.0	2.24	0.0	-0.20
NATURAL SCIENCE	8	15.11	0.0	2.21	0.0	0.72
SOCIAL SCIENCE	17	18.95	0.0	2.04	0.0	0.20
HUMANITIES	7	17.37	0.0	2.09	0.0	-0.57
LITERATURE	7	43.74	0.0	2.26	0.0	0.22

WEEK 16

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	18.51	0.0	21.00	0.0	0.08
MATHEMATICS	19	12.53	0.0	22.42	0.0	0.08
NATURAL SCIENCE	10	16.16	0.0	21.00	0.0	0.34
SOCIAL SCIENCE	17	15.23	0.0	18.82	0.0	-0.08
HUMANITIES	8	20.35	0.0	17.62	0.0	0.15
LITERATURE	6	61.52	0.0	21.00	0.0	0.26

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	18.51	0.0	2.15	0.0	-0.14
MATHEMATICS	19	12.53	0.0	2.19	0.0	-0.03
NATURAL SCIENCE	10	16.16	0.0	2.25	0.0	0.25
SOCIAL SCIENCE	17	15.23	0.0	1.97	0.0	0.20
HUMANITIES	8	20.35	0.0	1.92	0.0	0.36
LITERATURE	6	61.52	0.0	2.24	0.0	0.36

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR READING RATES IN VARIOUS SUBJECTS
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 17

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	27	20.72	0.0	20.44	0.0	0.25
MATHEMATICS	17	11.97	0.0	22.12	0.0	0.39
NATURAL SCIENCE	9	12.57	0.0	19.89	0.0	-0.34
SOCIAL SCIENCE	16	16.50	0.0	16.62	0.0	0.11
HUMANITIES	10	16.16	0.0	18.80	0.0	-0.30
LITERATURE	7	48.70	0.0	21.14	0.0	-0.02

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	27	20.72	0.0	2.03	0.0	0.13
MATHEMATICS	17	11.97	0.0	2.13	0.0	0.17
NATURAL SCIENCE	9	12.57	0.0	2.20	0.0	0.16
SOCIAL SCIENCE	16	16.50	0.0	1.86	0.0	0.29
HUMANITIES	10	16.16	0.0	2.04	0.0	0.01
LITERATURE	7	48.70	0.0	2.22	0.0	0.10

WEEK 18

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	27	23.47	0.0	21.30	0.0	0.15
MATHEMATICS	14	12.10	0.0	21.43	0.0	0.19
NATURAL SCIENCE	10	18.59	0.0	20.70	0.0	0.26
SOCIAL SCIENCE	17	17.70	0.0	18.53	0.0	0.12
HUMANITIES	6	27.46	0.0	20.33	0.0	-0.30
LITERATURE	7	73.25	0.0	22.00	0.0	-0.90

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	27	23.47	0.0	2.09	0.0	-0.12
MATHEMATICS	14	12.10	0.0	2.15	0.0	0.10
NATURAL SCIENCE	10	18.59	0.0	2.08	0.0	0.29
SOCIAL SCIENCE	17	17.70	0.0	2.03	0.0	0.31
HUMANITIES	6	27.46	0.0	1.82	0.0	0.20
LITERATURE	7	73.25	0.0	2.34	0.0	-0.61

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR READING RATES IN VARIOUS SUBJECTS
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 19

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	23	24.39	0.0	22.78	0.0	0.27
MATHEMATICS	17	11.87	0.0	22.59	0.0	0.10
NATURAL SCIENCE	11	13.49	0.0	19.18	0.0	0.40
SOCIAL SCIENCE	16	20.30	0.0	18.06	0.0	-0.37
HUMANITIES	14	31.22	0.0	19.71	0.0	-0.68
LITERATURE	5	35.94	0.0	18.80	0.0	0.39

Y IS GPA

ENGLISH	23	24.39	0.0	2.03	0.0	0.30
MATHEMATICS	17	11.87	0.0	2.26	0.0	0.08
NATURAL SCIENCE	11	13.49	0.0	1.99	0.0	0.57
SOCIAL SCIENCE	16	20.30	0.0	1.98	0.0	0.13
HUMANITIES	14	31.22	0.0	2.06	0.0	-0.26
LITERATURE	5	35.94	0.0	2.09	0.0	0.04

WEEK 20

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	25.28	0.0	22.12	0.0	-0.24
MATHEMATICS	14	13.86	0.0	21.86	0.0	0.46
NATURAL SCIENCE	10	21.39	0.0	20.70	0.0	-0.45
SOCIAL SCIENCE	16	22.44	0.0	17.69	0.0	-0.41
HUMANITIES	11	36.37	0.0	20.55	0.0	-0.69
LITERATURE	8	30.94	0.0	13.62	0.0	0.61

Y IS GPA

ENGLISH	25	25.28	0.0	2.13	0.0	0.11
MATHEMATICS	14	13.86	0.0	2.18	0.0	0.31
NATURAL SCIENCE	10	21.39	0.0	2.35	0.0	-0.15
SOCIAL SCIENCE	16	22.44	0.0	1.97	0.0	-0.02
HUMANITIES	11	36.37	0.0	2.13	0.0	-0.07
LITERATURE	8	30.94	0.0	1.36	0.0	0.69

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES PAID FRESHMEN

WEEK 21

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	24	22.66	0.0	20.71	0.0	0.16
MATHEMATICS	15	15.43	0.0	21.67	0.0	0.34
NATURAL SCIENCE	8	14.87	0.0	20.25	0.0	-0.18
SOCIAL SCIENCE	14	22.06	0.0	19.29	0.0	-0.66
HUMANITIES	8	17.43	0.0	17.88	0.0	0.42
LITERATURE	6	37.85	0.0	16.83	0.0	0.48

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	24	22.66	0.0	2.10	0.0	0.31
MATHEMATICS	15	15.43	0.0	2.13	0.0	0.19
NATURAL SCIENCE	8	14.87	0.0	2.09	0.0	-0.31
SOCIAL SCIENCE	14	22.06	0.0	2.03	0.0	0.03
HUMANITIES	8	17.43	0.0	1.95	0.0	0.65
LITERATURE	6	37.85	0.0	2.06	0.0	0.45

WEEK 22

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	26	17.25	0.0	21.35	0.0	-0.04
MATHEMATICS	17	10.35	0.0	22.12	0.0	-0.09
NATURAL SCIENCE	13	15.37	0.0	21.69	0.0	0.18
SOCIAL SCIENCE	16	16.80	0.0	18.62	0.0	-0.15
HUMANITIES	4	14.36	0.0	26.00	0.0	0.50
LITERATURE	8	42.38	0.0	23.37	0.0	-0.16

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	26	17.25	0.0	2.12	0.0	0.05
MATHEMATICS	17	10.35	0.0	2.19	0.0	-0.42
NATURAL SCIENCE	13	15.37	0.0	2.13	0.0	0.12
SOCIAL SCIENCE	16	16.80	0.0	2.02	0.0	-0.06
HUMANITIES	4	14.36	0.0	2.49	0.0	-0.81
LITERATURE	8	42.38	0.0	2.15	0.0	-0.22

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 23

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	15.83	0.0	20.96	0.0	-0.05
MATHEMATICS	17	11.25	0.0	21.76	0.0	-0.02
NATURAL SCIENCE	10	15.34	0.0	20.80	0.0	0.38
SOCIAL SCIENCE	16	17.59	0.0	19.62	0.0	-0.17
HUMANITIES	6	21.78	0.0	17.33	0.0	-0.80
LITERATURE	5	25.75	0.0	20.20	0.0	0.65

Y IS GPA

ENGLISH	25	15.83	0.0	2.15	0.0	-0.15
MATHEMATICS	17	11.25	0.0	2.23	0.0	0.16
NATURAL SCIENCE	10	15.34	0.0	2.35	0.0	-0.20
SOCIAL SCIENCE	16	17.59	0.0	1.98	0.0	0.00
HUMANITIES	6	21.78	0.0	2.11	0.0	-0.72
LITERATURE	5	25.75	0.0	2.01	0.0	0.51

WEEK 24

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	23	17.01	0.0	19.78	0.0	0.21
MATHEMATICS	14	14.56	0.0	21.21	0.0	0.45
NATURAL SCIENCE	10	12.11	0.0	19.40	0.0	0.02
SOCIAL SCIENCE	18	16.72	0.0	21.06	0.0	-0.53
HUMANITIES	11	16.17	0.0	19.64	0.0	-0.14
LITERATURE	5	35.85	0.0	19.00	0.0	0.40

Y IS GPA

ENGLISH	23	17.01	0.0	1.93	0.0	0.25
MATHEMATICS	14	14.56	0.0	2.17	0.0	0.33
NATURAL SCIENCE	10	12.11	0.0	2.11	0.0	-0.22
SOCIAL SCIENCE	18	16.72	0.0	2.03	0.0	0.07
HUMANITIES	11	16.17	0.0	2.05	0.0	-0.04
LITERATURE	5	35.85	0.0	2.15	0.0	-0.03

PRODUCT-MOMENT CORRELATION COEFFICIENTS FOR READING RATES IN VARIOUS SUBJECTS VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES

PAID FRESHMEN

WEEK 25

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	16.65	0.0	21.08	0.0	0.11
MATHEMATICS	17	11.24	0.0	22.12	0.0	0.45
NATURAL SCIENCE	10	16.34	0.0	23.00	0.0	0.54
SOCIAL SCIENCE	15	18.56	0.0	19.07	0.0	-0.18
HUMANITIES	5	23.60	0.0	18.80	0.0	-0.98
LITERATURE	5	44.02	0.0	20.20	0.0	0.43

Y IS GPA

ENGLISH	25	16.65	0.0	2.12	0.0	-0.19
MATHEMATICS	17	11.24	0.0	2.14	0.0	0.43
NATURAL SCIENCE	10	16.34	0.0	2.22	0.0	0.44
SOCIAL SCIENCE	15	18.56	0.0	1.88	0.0	0.22
HUMANITIES	5	23.60	0.0	2.44	0.0	-0.67
LITERATURE	5	44.02	0.0	2.18	0.0	0.04

WEEK 26

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	25	18.97	0.0	20.96	0.0	-0.00
MATHEMATICS	15	12.94	0.0	21.67	0.0	0.06
NATURAL SCIENCE	9	15.15	0.0	19.89	0.0	-0.58
SOCIAL SCIENCE	17	16.87	0.0	18.29	0.0	0.31
HUMANITIES	6	16.16	0.0	16.67	0.0	-0.79
LITERATURE	7	46.44	0.0	26.14	0.0	0.03

Y IS GPA

ENGLISH	25	18.97	0.0	2.15	0.0	-0.08
MATHEMATICS	15	12.94	0.0	2.19	0.0	0.09
NATURAL SCIENCE	9	15.15	0.0	2.20	0.0	0.18
SOCIAL SCIENCE	17	16.87	0.0	1.96	0.0	0.43
HUMANITIES	6	16.16	0.0	2.04	0.0	-0.78
LITERATURE	7	46.44	0.0	2.46	0.0	-0.65

PRODUCT-MOMENT CORRELATION COEFFICIENTS
FOR READING RATES IN VARIOUS SUBJECTS
VERSUS ACT COMPOSITE SCORES AND GRADE POINT AVERAGES
PAID FRESHMEN

WEEK 27

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	24	15.83	0.0	19.79	0.0	0.29
MATHEMATICS	12	11.49	0.0	23.75	0.0	0.25
NATURAL SCIENCE	12	17.48	0.0	20.42	0.0	0.17
SOCIAL SCIENCE	14	18.84	0.0	16.79	0.0	0.13
HUMANITIES	8	21.87	0.0	18.50	0.0	-0.63
LITERATURE	7	58.04	0.0	23.29	0.0	-0.03

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	24	15.83	0.0	2.06	0.0	0.18
MATHEMATICS	12	11.49	0.0	2.23	0.0	-0.06
NATURAL SCIENCE	12	17.48	0.0	2.10	0.0	-0.09
SOCIAL SCIENCE	14	18.84	0.0	1.96	0.0	0.27
HUMANITIES	8	21.87	0.0	1.96	0.0	-0.61
LITERATURE	7	58.04	0.0	2.34	0.0	-0.67

WEEK 28

Y IS ACT

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	23	15.44	0.0	20.43	0.0	-0.11
MATHEMATICS	13	14.05	0.0	19.38	0.0	0.56
NATURAL SCIENCE	7	16.74	0.0	19.00	0.0	-0.02
SOCIAL SCIENCE	19	19.18	0.0	20.53	0.0	0.03
HUMANITIES	9	23.80	0.0	18.11	0.0	-0.36
LITERATURE	5	39.25	0.0	15.60	0.0	0.53

Y IS GPA

	NUMBER IN SAMPLE	MEAN X	STD DEV X	MEAN Y	STD DEV Y	CORR COEFF
ENGLISH	23	15.44	0.0	2.13	0.0	0.17
MATHEMATICS	13	14.05	0.0	1.99	0.0	0.53
NATURAL SCIENCE	7	16.74	0.0	2.08	0.0	0.82
SOCIAL SCIENCE	19	19.18	0.0	2.12	0.0	0.13
HUMANITIES	9	23.80	0.0	2.07	0.0	-0.19
LITERATURE	5	39.25	0.0	1.87	0.0	0.69